

Undergraduate Catalog 2006-2008



KU Chancellor Robert Hemenway teaches ENGL 322 American Literature II.

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How to Use This Book

Cover: Fraser Hall is on KU's main Lawrence campus. Below, from left: Professor Ron Francisco teaches a European studies class. Professor Ron Barrett-Gonzalez works with aerospace engineering students. A nursing student helps with a vision test. Professor Crystal Anderson advises a student in American studies. The Marching Jayhawks perform at a home football game. Journalism students prepare a newscast in the Stauffer Multi-media Newsroom. Photography by R. Steve Dick, Randy Edmonds, Mark Hutchinson, Doug Koch, David McKinney, Elissa Monroe, Aaron Paden, and John Wysocki.

This is the University of Kansas *Undergraduate Catalog* for academic years 2006-2008. It tells you what degrees are available at KU and what you must do to earn them. It also contains official descriptions of all the courses KU offers at the undergraduate level.

Some courses listed in the catalog are not offered every semester. To find out whether a course is offered in a particular semester, consult the KU *Timetable of Classes*, online at www.timetable.ku.edu. Courses with a _____ at the end of their titles are typically topics or seminar courses that may be repeated for credit. Usually these courses offer different topics each time they are offered. Check with the course instructor about requirements and topics.

Many departments make changes in their degree requirements and course descriptions between printings of the *Undergraduate Catalog*. Check with department offices or deans' offices to see what changes have been made. The catalog and other academic publications are online at www.catalogs.ku.edu. A complete listing of departmental Web sites is available at www.ku.edu/departments.

Familiarize yourself with the catalog before you meet with your adviser. Take the *Undergraduate Catalog* along to your advising sessions.

General Information

All KU undergraduate students should read the General Information chapter, beginning on page 11 of this catalog. It gives information that applies to all undergraduates about application, admission, enrollment, tuition and fees, and financial aid. To find out whether the school you are enrolling in has additional or different requirements, read your school's chapter of the catalog.

Tuition, fees, and enrollment information vary from term to term. Check www.registrar.ku.edu/fees for current information.

The **Kyou portal** gives Lawrence and Edwards Campus students access to many online services and resources. Visit the portal at <https://students.ku.edu>.

The **myKUMC** student portal allows KU Medical Center students to check announcements, grades, schedules, and more. See <https://my.kumc.edu>.

General Regulations

All KU undergraduate students should read the General Regulations chapter, beginning on page 37 of this catalog. It lists the rules governing credit, course work, permanent records, transfer of credit, changes of enrollment, grading, graduation, and general requirements of the university.

A typical section from the General Regulations chapter is shown below. Rules are listed in alphabetical order by topics (Adding a Course, Honor Roll, In-completes, etc.). The large-print section for each topic applies to all students. Different or additional regulations for a particular school are listed in smaller print. For some topics, this information is in chart form. For most topics, you should read the large-print general information and the section of the text or chart that applies to the school in which you are enrolled.

In the following example, the first paragraph applies to students in any school. The last paragraph describes additional regulations for students in the College of Liberal Arts and Sciences.

Academic Advising

Academic advising is an important part of each student's KU experience. Many schools, the College, and departments and programs require students to meet with their academic advisers at least once a semester. See Academic Advising in the General Information chapter of this catalog. See Advising in each school's chapter of this catalog.

College of Liberal Arts and Sciences. All first- and second-year students must meet with their advisers each semester before enrolling for the following semester. Students who have not declared a major after 60 hours must meet with an adviser before enrolling. An advising hold is placed on the student's enrollment and removed only after the student meets with the adviser.

The College and School Chapters

Eleven schools at KU admit undergraduate students. Each school has its own chapter in this book. The College or CLAS refers to the College of Liberal Arts and Sciences, which admits most undergraduates and offers the largest number of majors.

Look for your areas of interest in the chapters belonging to the school that offers them. If you are not sure where to find a program, look in the index at the back of this catalog for page numbers of individual programs and course categories.

Each school lists general information and common requirements for most degrees at the beginning of its chapter. You should read all the general information for your school. To receive a degree from that school, you must meet its general and graduation requirements.

Requirements for major or minor subjects within the degree programs usually are listed by department. To major or minor in a subject, you must complete its specific requirements in addition to the general and degree requirements of your school and those of KU.

Some degrees, such as the Bachelor of Science programs offered through the College of Liberal Arts and Sciences, list complete degree requirements under the department offering the degree.

Directory of Undergraduate Majors and Subfields

Major fields in this list show the degree in parentheses. In most cases, the major field will appear on the diploma and the transcript. Minor fields will appear on transcripts only. Subfield names (concentrations, emphases, options, etc.) generally do not appear on diplomas or transcripts.

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The myKUMC student portal gives KU Medical Center students access to online resources. Visit <https://my.kumc.edu>.

Visit KU online at www.ku.edu.

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Directory of Courses

Courses are grouped in categories (Accounting, English, Pharmacy Practice, etc.). Abbreviations are based on the category names. Category names are listed first. The college or school that offers the course follows (CLAS is the College of Liberal Arts and Sciences).

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Safety and Crime on Campus

The annual security report about KU safety policies, crime statistics, and campus resources is available online at www.ku.edu/safety or on paper from the Office of the Vice Provost for Student Success, Strong Hall, 1450 Jayhawk Blvd., Room 133, Lawrence, KS 66045-7535, (785) 864-4060. KU Medical Center's security report is online at www.kumc.edu/police/campact.

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The University of Kansas

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Distinguished and University Teaching Professors

Schools and departments also appoint teaching professors, some for limited terms. See the Faculty chapter at the end of this catalog for a more complete list. (March 2006, www.ku.edu/~distprof)

Lawrence Campus

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George Bittlingmayer, Wagnon Distinguished Professor of Business
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Allan J. Cigler, Chancellors Club Teaching Professor of Political Science

Jonathan C.D. Clark, Hall Family Foundation Distinguished Professor of History

George C. Coggins, Frank E. Tyler Distinguished Professor of Law

Bernard Cornet, Charles W. Oswald Distinguished Professor of Microeconomics

Jose Sequeira Costa, Cordelia B. Murphy Distinguished Professor of Piano

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Steven A. Epstein, Ahmanson-Murphy Distinguished Professor of Medieval History

Joseph B. Evans, Deane E. Ackers Distinguished Professor of Electrical Engineering and Computer Science

Stephen B. Fawcett, Kansas Health Foundation Distinguished Professor of Applied Behavioral Science

H. George Frederickson, Edwin O. Stene Distinguished Professor of Government

Victor S. Frost, Dan F. Servey Distinguished Professor of Electrical Engineering and Computer Science

Robert L. Glicksman, Robert W. Wagstaff Distinguished Professor of Law

Prasad Gogineni, Deane E. Ackers Distinguished Professor of Electrical Engineering and Computer Science

Robert H. Goldstein, Merrill W. Haas Distinguished Professor of Geology

Don W. Green, Deane E. Ackers Distinguished Professor of Chemical and Petroleum Engineering

Susan K. Harris, Joyce and Elizabeth Hall Distinguished Professor of American Literature and Culture

N. Ray Hiner, Chancellors Club Teaching Professor of History and Teaching and Leadership

Michael H. Hoeflich, John H. and John M. Kane Distinguished Professor of Law

David S. Holmes, Chancellors Club Teaching Professor of Psychology

Craig L. Huneke, Henry J. Bischoff Distinguished Professor of Mathematics

Susan J. Kemper, Roy A. Roberts Distinguished Professor of Psychology

Barbara Kerr, Williamson Family Distinguished Professor of Counseling Psychology

Chuan-Tau E. Lan, J.L. Constant Distinguished Professor of Aerospace Engineering

Dennis D. Lane, N.T. Veatch Distinguished Professor of Civil, Environmental, and Architectural Engineering

Wojciech Lesnikowski, Don Hatch Distinguished Professor of Architecture

Paul Stephen Lim, Chancellors Club Teaching Professor of English

Kenneth D. Mackenzie, Edmund P. Learned Distinguished Professor of Business

Craig E. Martin, Chancellors Club Teaching Professor of Ecology and Evolutionary Biology

Keith G. Meyer, E.S. and Tom W. Hampton Distinguished Professor of Law

Elias Michaelis, University Distinguished Professor of Pharmacology and Toxicology

C. Russell Middaugh, Takeru Higuchi Distinguished Professor of Pharmaceutical Chemistry

Lester A. Mitscher, University Distinguished Professor of Medicinal Chemistry

Joane P. Nagel, University Distinguished Professor of Sociology

Allan H. Pasco, Hall Family Foundation Distinguished Professor of French and Italian

Mabel L. Rice, Fred and Virginia Merrill Distinguished Professor of Advanced Studies

Stanley T. Rolfe, Albert P. Learned Distinguished Professor of Civil, Environmental, and Architectural Engineering

Elinor P. Schroeder, Paul E. Wilson Distinguished Professor of Law

K. Sam Shanmugan, SBC Distinguished Professor of Electrical Engineering and Computer Science

Prakash P. Shenoy, Ronald G. Harper Distinguished Professor of Business

Don W. Steeples, Dean A. McGee Distinguished Professor of Geology

Valentino Stella, University Distinguished Professor of Pharmaceutical Chemistry

Bala Subramaniam, Dan F. Servey Distinguished Professor of Chemical and Petroleum Engineering

Karan S. Surana, Deane E. Ackers Distinguished Professor of Mechanical Engineering

Thomas N. Taylor, Roy A. Roberts Distinguished Professor of Ecology and Evolutionary Biology

Barbara Timmerman, Distinguished Professor of Medicinal Chemistry

W. Randall Van Schmus, Union Pacific Distinguished Professor of Geology

G. Paul Willhite, Ross H. Forney Distinguished Professor of Chemical and Petroleum Engineering

George S. Wilson, Takeru Higuchi Distinguished Professor of Chemistry and Pharmaceutical Chemistry

Donald E. Worster, Hall Family Foundation Distinguished Professor of History

Norman R. Yetman, Chancellors Club Teaching Professor of American Studies and Sociology

KU Medical Center Campus

Daniel F. Albertini, Hall Professor of Molecular Medicine

Marc A. Asher, University Distinguished Professor of Orthopedic Surgery

Solomon Batnitzky, Arch Templeton Professor of Radiology

Douglas C. Burton, Marc and Elinor Asher Endowed Professor of Spinal Deformities

John W. Calkins, Kermit E. Krantz Chair of Gynecology and Obstetrics

Susan E. Carlson, Midland Dairy Council Professor of Nutrition

James D. Cook, L.E. and Lenora Carr Phillips Distinguished Professor of Medicine

Carol J. Fabian, William R. Jewell Distinguished Kansas Masonic Professor of Internal Medicine

John A. Ferraro, Carolyn Doughty-Margaret Kemp Chair of Hearing and Speech

Doren Fredrickson, Kansas Health Foundation Distinguished Professor of Preventive Medicine

Jared J. Grantham, University Distinguished Professor of Internal Medicine and Harry Statland Professor of Nephrology

Douglas V. Horbelt, Daniel K. Roberts Professor of Obstetrics and Gynecology

Joan S. Hunt, University Distinguished Professor of Anatomy and Cell Biology

Roy A. Jensen, Kansas Masonic Cancer Research Chair

Curtis D. Klaassen, University Distinguished Professor of Pharmacology, Toxicology, and Therapeutics

Anthony L. Kovac Jr., Kasumi Arakawa Endowed Professor of Anesthesiology

Joseph L. Kyner, Chancellors Club Teaching Professor of Internal Medicine

Barbara P. Lukert, Mary F. Roberts Distinguished Professor of Nutrition

Joseph F. Lutkenhaus, University Distinguished Professor of Microbiology

Martin A. Mainster, Luther L. Fry Professor of Ophthalmology

William V. McKnelly Jr., Lyle L. and Vivian L. Woodfin Psychiatric Professor

Opendra Narayan, Marion Merrell Dow Distinguished Professor of Aging

Rajesh Pahwa, Laverne and Joyce Rider Professor of Neurology

Susan K. Pingleton, Peter T. Bohan Professor of Medicine

Leigh Darryl Quarles Jr., Summerfield Endowed Professor of Nephrology

Robert N. Schimke, Chancellors Club Teaching Professor of Internal Medicine

Kimberly K. Templeton, Joy McCann Professorship for Women in Medicine and Science

J. Brantley Thrasher, William K. Valk Distinguished Professor of Urology

JinXi Wang, Harrington Professor of Orthopedic Research

David B. Wilson, Delbert D. Neis M.D. Professor of Cardiovascular Disease

Robert R. Wittler, Wesley Professor of Pediatrics

Douglas C. Woolley, Delos V. Smith Jr. Professor of Community Medicine

The Mission of the University of Kansas

The complete Statement of Institutional Mission, as approved by the Kansas Board of Regents, appears in *University of Kansas Profiles*, available online at www.ku.edu/~oirp/profiles.shtml, or at the reference desk in Watson Library on the Lawrence campus. It is also available from the University of Kansas, Office of Institutional Research and Planning, Carruth O'Leary Hall, 1246 West Campus Rd., Room 339, Lawrence, KS 66045-7505, (785) 864-4412; and the University of Kansas, Office of the Provost, Strong Hall, 1450 Jayhawk Blvd., Room 250, Lawrence, KS 66045-7535, (785) 864-4904. On the KU Medical Center campus, write or call the Office of the Executive Vice Chancellor, KU Medical Center, 2nd floor Murphy Administration Bldg., Mail Stop 2015, 3901 Rainbow Blvd., Kansas City, KS 66160, (913) 588-1400.

Lawrence

The University of Kansas is a major comprehensive research and teaching university that serves as a center for learning, scholarship, and creative endeavor. The University of Kansas is the only Kansas Regents university to hold membership in the prestigious Association of American Universities, a select group of 62 public and private research universities that represent excellence in graduate and professional education and the highest achievements in research internationally.

The University of Kansas offers the highest-quality undergraduate, professional, and graduate programs as well as outstanding libraries, teaching museums, and information technology. Educational, research, and service programs are offered on the main campus in Lawrence, through the health-related degree programs and services in Kansas City and Wichita, on the University of Kansas Edwards Campus in Overland Park, and at other sites throughout Kansas. More than 100 international study and cooperative research programs are available to students and faculty members.

The university is committed to excellence. It fosters a multicultural environment in which the dignity and rights of the individual are respected. Intellectual diversity, integrity, and disciplined inquiry in the search for knowledge are of paramount importance.

The University of Kansas Medical Center

The University of Kansas Medical Center includes the School of Medicine in Kansas City and Wichita, the Schools of Nursing and Allied Health, the University of Kansas Hospital, and the Office of Graduate Studies in Kansas City. KU Medical Center is committed to serving the health care needs of the citizens of Kansas, the region, and the nation by providing educational opportunities for careers in the health professions, comprehensive services to maintain health and wellness, ongoing support of the state's and the nation's health service systems, and continued development of medical knowledge through research and education.

Academic Calendar 2006-2008**Fall Semester 2006**

August 14-15 Monday-Tuesday
Orientation.

August 17 Thursday
Classes begin.

September 4 Monday
Holiday.

October 12 Thursday
Fall break begins.

October 15 Sunday
Fall break ends.

November 22 Wednesday
Thanksgiving break begins.

November 26 Sunday
Thanksgiving break ends.

December 7 Thursday
Last day of classes.

December 8 Friday
Stop day.

December 11 Monday
Final examinations begin.

December 15 Friday
Examinations end; recess begins.

Spring Semester 2007

January 15 Monday
Holiday.

January 17 Wednesday
Orientation.

January 19 Friday
Classes begin.

March 19 Monday
Spring break begins.

March 25 Sunday
Spring break ends.

May 10 Thursday
Last day of classes.

May 11 Friday
Stop day.

May 14 Monday
Final examinations begin.

May 18 Friday
Examinations end.

May 20 Sunday
Commencement.

Summer Session 2007

June 5 Tuesday
Summer sessions begin.

July 27 Friday
Summer sessions end; final examinations held in the last regular class period of each course.

Fall Semester 2007

August 13-14 Monday-Tuesday
Orientation.

August 16 Thursday
Classes begin.

September 3 Monday
Holiday.

October 11 Thursday
Fall break begins.

October 14 Sunday
Fall break ends.

November 21 Wednesday
Thanksgiving break begins.

November 25 Sunday
Thanksgiving break ends.

December 6 Thursday
Last day of classes.

December 7 Friday
Stop day.

December 10 Monday
Final examinations begin.

December 14 Friday
Examinations end; recess begins.

Spring Semester 2008

January 15 Tuesday
Orientation.

January 17 Thursday
Classes begin.

January 21 Monday
Holiday.

March 17 Monday
Spring break begins.

March 23 Sunday
Spring break ends.

May 8 Thursday
Last day of classes.

May 9 Friday
Stop day.

May 12 Monday
Final examinations begin.

May 16 Friday
Examinations end.

May 18 Sunday
Commencement.

Summer Session 2008

June 3 Tuesday
Summer sessions begin.

July 25 Friday
Summer sessions end; final examinations held in the last regular class period of each course.

KU's academic calendars are online at www.registrar.ku.edu/calendar.

For dates of orientation and enrollment sessions, contact New Student Orientation, Strong Hall, 1450 Jayhawk Blvd., Room 213, Lawrence, KS 66045-7535, (785) 864-4270, orientation@ku.edu, www.orientation.ku.edu.

For international orientation information, contact International Student and Scholar Services, (785) 864-3617, iss@ku.edu, www.ku.edu/~issfacts.

General Information

Robert Hemenway, Chancellor of the University
Strong Hall, 1450 Jayhawk Blvd., Room 230
Lawrence, KS 66045-7535, (785) 864-3131
www.chancellor.ku.edu

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General Information

Nondiscrimination, Equal Opportunity, and Affirmative Action Policy

The University of Kansas prohibits discrimination on the basis of race, color, religion, sex, national origin, age, ancestry, and disability and veteran status, in accordance with state and federal law. The university also prohibits discrimination on the basis of sexual orientation, marital status, and parental status as a matter of policy. Discrimination is prohibited in employment and all education programs and activities of the university and its affiliates. Sexual, racial, and ethnic harassment are forms of discrimination that are also expressly prohibited by university policy.

The University of Kansas is committed to taking affirmative action in employment and education programs for underutilized group members and protected class citizens. The university also is committed to providing equal opportunity in all aspects of education and employment. Full texts of university policies related to nondiscrimination, equal opportunity and affirmative action, sexual harassment, and racial and ethnic harassment are available at www.hreo.ku.edu/policies_procedures/eo_aa_policies.

Inquiries regarding the affirmative action program, equal opportunity policy, nondiscrimination policy, and reports or allegations of discrimination or harassment on the Lawrence campus should be made to Linda Fund, assistant director, Department of Human Resources and Equal Opportunity, Carruth-O'Leary Hall, 1246 West Campus Rd., Room 103, Lawrence, KS 66045-7505, (785) 864-3686, www.hreo.ku.edu. On the KU Medical Center campus, contact Jayne Owen, director, Equal Opportunity Office, KU Medical Center, 1040 Wescoe, Mail Stop 2014, 3901 Rainbow Blvd., Kansas City, KS 66160, (913) 588-1206, (913) 588-7963 (TDD), www.kumc.edu/eoo.

The University Communities

The University of Kansas has educational, research, and service centers throughout Kansas. There is a clinical campus of the School of Medicine in Wichita and a program in Topeka, the state capital, in public administration. KU's Institute for Life Span Studies has facilities in Parsons and Kansas City, as well as in Lawrence.

Lawrence

KU's main campus is in Lawrence, Kansas, a youthful, thriving community with a population of 88,500. The campus is in the heart of the city on a ridge called Mount Oread. The city began as an outpost on the banks of the Kansas River and retains many reminders of its

colorful past. The tree-lined main street a few blocks from campus has an abundance of small specialty shops. Other shopping centers are nearby. The community has 32 public parks, three community swimming pools, an arts center, a public library, a community center, and active community education and recreation programs.

The Lawrence Community Theatre, Lawrence Chamber Orchestra, and Seem-to-Be Players children's theatre group present music and theatre events. The Lawrence Arts Center offers classes in arts, crafts, music, dance, and other subjects for children and adults, as well as gallery shows. Local galleries sponsor art exhibits.

Kansas City and KU Medical Center

Metropolitan Kansas City, about 45 minutes from Lawrence by interstate highway, encompasses seven counties and 50 municipalities in two states. Kansas City International Airport, MCI, provides easy access to the area, and interstate highways provide access to 12 lakes, more than 140 parks, and various vacation and resort areas. Popular attractions include Kansas City's jazz museum, the Nelson-Atkins Museum of Art, the Kansas City Art Institute, Union Station, Science City, and the Kansas City Museum of History and Science. Sports fans enjoy NASCAR racing, Kansas City Royals baseball, and Chiefs football.

The KU School of Medicine began in 1905 with a merger of three proprietary medical schools to form a four-year school directed by the university. By 1924, the institution had outgrown its original location, and the first building on the present campus was occupied. KU Medical Center is involved with teaching, patient care, medical research, and community service. There are 764 full- and part-time faculty members, more than 2,600 students, and 2,700 employees. KUMC is centrally located in the metropolitan Kansas City area. It offers educational programs through the Schools of Allied Health, Medicine, and Nursing, and the Office of Graduate Studies. Visit KUMC online: www.kumc.edu.

KU Edwards Campus, Overland Park

KU offers more than 25 undergraduate and graduate programs on the KU Edwards Campus, 12600 Quivira Road, Overland Park, KS 66213-2402. Courses are taught by KU faculty members and carry the same credit as those offered on the Lawrence campus.

The Edwards Campus has completed the first stage of a \$70-million expansion. The completion of Victor and Helen Regnier Hall more than doubled the space on campus. In 2005, Jayhawk Central opened, featuring an expanded KU bookstore, PT's Coffee Shop, a WiFi environment, an outdoor terrace seating 20 people, meeting space, and an ATM. For further information,

**Photo, page 12:
Dyche Hall, on
KU's Lawrence
campus, houses
the Natural
History Museum.
It is one of three
KU buildings
listed on the
National Register
of Historic Places.**

call the Edwards Campus at 864-8400 from Lawrence or (913) 897-8400 from other locations. Visit the Edwards Campus online at <http://edwardscampus.ku.edu>.

University Support

The University of Kansas is the largest Regents institution in Kansas. Nearly one-third of the Lawrence campus budget and more than a third of the Medical Center budget come from state appropriations. The sources of the rest of the university budget are gifts, grants, and fees. KU's total research expenditures in fiscal year 2005 for all projects, including sponsored research, training, and service grants in all fields, were \$281 million, a 3 percent increase over 2004.

At the close of the 2005 fiscal year, the Kansas University Endowment Association market value of total assets reached \$1.27 billion. Among public universities, KU Endowment ranks 19th in size of endowment per student; 86 percent of KU's total land holdings are a result of gifts and nonstate grants.

Private gifts have provided, in whole or in part, 110 of the 150 buildings on KU's campuses, including the Hoglund Brain Imaging Center at the KU Medical Center, Regnier Hall on the Edwards Campus, and in Lawrence, the Dole Institute of Politics, Rieger Scholarship Hall, and the Lied Center of Kansas.

Throughout its 114-year history, KU Endowment has given \$1.2 billion in private support to KU through the generosity of its donors. In 2005, more than 8,000 KU students received \$24.7 million in scholarships, awards, prizes, and loans. In 2005, KU Endowment's support of the university also passed the \$100-million mark for the first time as the organization gave \$103.9 million for, among other things, construction, faculty and student support, academic programs, library acquisitions, and equipment.

Facilities

Arts and Humanities

The **Lied Center of Kansas** houses a 2,020-seat auditorium with state-of-the-art spatial qualities and technical production capabilities. **Bales Organ Recital Hall** is a 210-seat hall for the teaching, practice, and performance of organ music. It houses a Hellmuth Wolff mechanical-action organ. The **University Theatre** stages a dozen works annually at Crafton-Preyer Theatre and in an experimental space named after KU alumnus William Inge.

Kansas Public Radio, KU's FM station (91.5 Lawrence, 89.7 Emporia, 91.3 Olsburg-Junction City), is well known for its jazz and classical music programming. **KJHK Radio** (90.7 FM) is KU's student-operated, 3500-watt radio station. **KUJH-TV** (channel 14 over-the-air, 31 on cable) is KU's TV station.

Hall Center for the Humanities fosters research in the humanities. Centers on Africa; East Asia; Europe; Latin America; Russia, East Europe, and Eurasia; and the Max Kade Center for German-American Studies promote **international studies**.

Behavioral Sciences

The **Schiefelbusch Institute for Life Span Studies** comprises 12 programs conducting more than 80 funded research, training, and demonstration projects. The **Center for Research on Learning** conducts

research to enhance learning and performance in school and nonschool settings.

Business, Economics, Government

The **Robert J. Dole Institute of Politics** offers programs that enhance the understanding of complex policy issues and encourage responsive and effective public service. The **Policy Research Institute** brings university expertise in metropolitan studies, public policy, international relations, and economics to the state, region, nation, and world. The **Center for International Business Education and Research** adds a global perspective to business programs and makes students aware of issues in international business. The **School of Business** offers an annual lecture series as well as classroom opportunities that bring influential and innovative business leaders to campus.

Computing

Information Technology facilitates the use of technology in teaching, research, and administration for students, faculty, and staff. See www.technology.ku.edu for a complete description of the resources available. The Budig Hall Computer Lab and the Herb Harris Computer Lab in the Kansas Union are open to all students; see www.computerlabs.ku.edu/lablist.

On the KU Edwards Campus, **Technology Services**, http://edwardscampus.ku.edu/Technology_Services/Technology_Services_Index.htm, offers computing resources. KU Medical Center is online at www.kumc.edu.

Libraries

Watson Library houses most collections in the humanities and social sciences and centralized library processing. **Anschutz Library** houses KU's science, math, government information, maps, geography, business, and economics collections. **Spencer Research Library** contains rare books, manuscripts, regional history collections, and the University Archives. **Murphy Library of Art and Architecture** supports these disciplines and art history. **Spahr Engineering Library** supports engineering and computer science. **Gorton Music and Dance Library** supports these areas of fine arts. The **Wheat Law Library** supports the law curriculum.

On the Medical Center campus, **Dykes Library for Health Sciences** has a comprehensive health science collection and provides access to a wide range of electronic resources. **Clendening History of Medicine Library** contains materials on the history of medicine.

The **Regents Center Library** on the KU Edwards Campus provides electronic resources and instructional and research assistance.

Museums

The **KU Natural History Museum** houses excellent scientific collections. Based on National Science Foundation support, KU has one of the top five university collections in the nation. **Spencer Museum of Art** has a comprehensive collection of 23,000 works. The museum's holdings rank among the nation's premier university collections. It houses the Murphy Art and Architecture Library. The **Wilcox Classical Museum** displays full-scale plaster replicas of Greek and Roman sculpture as well as Graeco-Roman antiquities.

The 2006 Fiske Guide to Colleges gives KU four stars for academics, social life, and overall quality of university life. Only a handful of state universities received higher marks for academics.

Most of KU's health sciences programs are offered at the KU Medical Center in Kansas City.

The KU Edwards Campus is at 12600 Quivira Road, Overland Park, KS 66213-2402, <http://edwardscampus.ku.edu>, phone (913) 897-8400. From Lawrence, call 864-8400.

Science and Technology

The **Higuchi Biosciences Center** includes the Center for Biomedical Research, dedicated to basic research; and the Centers for Bioanalytical Research, Drug Delivery Research, and Neurobiology and Immunology Research, oriented to pharmaceutical industry needs.

The **Kansas Geological Survey** is responsible for research and service concerned with the solution of earth-related problems in Kansas. The **Kansas Biological Survey** studies Kansas plants and animals as a research and service resource. The **Kansas Ecological Reserves** make available 1,625 acres of woodland, prairie, and old fields for teaching and research.

The **Center for Environmentally Beneficial Catalysis** develops chemical processes for industry that are environmentally friendly and economically viable. The **Center for Remote Sensing of Ice Sheets** conducts and fosters multidisciplinary research that will result in technology, new datasets, and models needed to achieve a better understanding of the mass balance of the polar ice sheets and their contributions to sea-level rise. The **Flight Research Laboratory** conducts research for the aerospace industry, NASA, and the Department of Defense in facilities on campus and at the Garrison Flight Research Center at the Lawrence Airport. The **Tertiary Oil Recovery Project** is responsible for research and development of technology needed for new oil recovery processes. The **Transportation Research Center** conducts and promotes transportation research and evaluates the effectiveness of highway safety projects. The **Infrastructure Research Center** conducts research on infrastructural elements needed in society. **DesignLab** focuses on component technologies research for computer-aided design tools. The **Information and Telecommunication Technology Center** is responsible for research, development, and transfer of technologies in transmission systems. The **Radar Systems and Remote Sensing Laboratory** performs research on all phases of microwave remote sensing.

At KU Medical Center, the **Kansas Masonic Cancer Research Institute** connects researchers, health care professionals, patients, and the public with resources needed to battle cancer. It is a major regional tertiary referral center for cancer patients. The **Center for Environmental and Occupational Health** conducts research and disseminates information on the toxicity of environmental chemicals. The **Center on Aging** provides an interdisciplinary approach to clinical, educational, and research programs related to aging.

Faculty and Philosophy of Undergraduate Teaching

KU's faculty includes 2,200 full-time members. Virtually all KU faculty members in the schools with undergraduate enrollment teach both undergraduate and graduate courses, and 97 percent of full-time faculty members hold the highest degrees awarded in their academic fields.

Several programs support outstanding undergraduate teaching. The Board of Class Officers sponsors the annual HOPE (Honor for Outstanding Progressive Educators) Award, presented by students. Kemper Fellowships for Teaching Excellence recognize outstanding

teachers and advisers. A number of awards recognize excellent teachers. The College of Liberal Arts and Sciences and the professional schools sponsor awards that recognize outstanding teaching and advising.

KU faculty members are active scholars, expanding the horizons of knowledge in their fields. KU awards distinguished and university teaching professorships to talented faculty members in recognition of their superior accomplishments in teaching and research. Schools and departments also appoint teaching professors, some for limited terms.

Goals of General Education at KU

1. Enhance the skills and knowledge needed to research, organize, evaluate, and apply new information and develop a spirit of critical inquiry and intellectual integrity.
2. Acquire knowledge in the fine arts, the humanities, and the social, natural, and mathematical sciences and be able to integrate that knowledge across disciplines.
3. Improve the core skills of reading, writing, and numeracy, and enhance communication by clear, effective use of language.
4. Understand and appreciate the development, culture, and diversity of the United States and of other societies and nations.
5. Become aware of contemporary issues in society, technology, and the natural world and appreciate their complexity of cause and consequences.
6. Practice an ethic of self-discipline, social responsibility, and citizenship on a local, national, and international level.

Established by the University Assessment Committee, 2001

Student Profile

KU enrolls students from every state in the nation and more than 100 foreign countries. Total fall enrollment in 2005 was 29,624. KU Medical Center enrolled 2,690 students in fall 2005. About 71 percent of KU students are undergraduates; 70 percent are Kansas residents. About 91 percent pursue studies on the Lawrence campus. The average ACT score for entering first-year students is 24.4. KU grants almost 3,500 bachelor's degrees each year.

The KU Edwards Campus in Overland Park serves working, adult students in Kansas City. Average enrollment is 2,200. The average student age is 32; 35 percent are male and 65 percent female; 93 percent work part or full time; and 55 percent are married.

Twenty-five KU students have become Rhodes scholars; 16 have won Truman scholarships; nine have become Marshall scholars; 41 have become Goldwater scholars. KU has had 24 Mellon fellows since the program was established in 1982. KU has had seven Dwight Eisenhower/Clifford Roberts Fellows since the program was established in 1985. KU students have achieved national recognition in aerospace engineering, architecture, business, chemical engineering, design, jazz, and journalism. KU debate teams have won the National Debate Tournament four times. The 2006 *Fiske Guide to Colleges* names KU programs in architecture, business, education, environmental studies, journalism, nursing, pharmacy, and social welfare as standouts.

University Policy on Diversity of the Student Body

The University of Kansas values diversity in its student body and believes that the intentional creation of a diverse learning environment is essential to achieving the university's educational mission. The university fosters a multicultural environment in which the dignity and rights of the individual are respected.

To build a diverse community, the university considers, in addition to academic credentials, the following criteria for student admission decisions, scholarship recognition, and program participation. While each factor is significant, no one factor will be considered determinative in the decision process:

- Bilingual or multilingual abilities
- Cultural background
- Ethnicity
- Evidence of commitment to diversity
- Evidence of leadership skills
- First-generation college student
- Geographic diversity
- Financial, social, family, physical, or educational hardships
- Previous career before pursuing higher education
- Race
- Service to community
- Socio-economic status
- Urban/rural background
- Other unique contributions

This policy was approved by Chancellor Robert E. Hemenway on April 9, 2004, and applies to all campuses of the University of Kansas.

Communication with Students

KU provides free e-mail service to students, faculty, staff, and others affiliated with the university. KU routinely uses e-mail for official communication with students. See E-mail in the General Regulations chapter of this catalog. For further information, see the full electronic mail policy at www.provost.ku.edu.

The Kyou portal provides Lawrence and Edwards Campus students with up-to-date information and resources. The portal provides access to such academic services as course schedules, grades, enrollment, financial aid, library services, and more. Visit the Kyou portal at <https://students.ku.edu>.

The myKUMC student portal allows KU Medical Center students to check announcements, grades, schedules, and more. See <https://my.kumc.edu>.

Undergraduate Admission and Scholarships

Nothing can prepare students better for KU's academic expectations than completing a challenging program of study in high school. High school students are encouraged to prepare for college by completing the Kansas Board of Regents' Qualified Admission curriculum. In addition, prospective Kansas Scholars are encouraged to complete at least two years of foreign language.

Final deadlines for undergraduate admission for summer and fall terms are

First-year students:	November 1 (early notification scholarship deadline)
	January 15 (admission and scholarships)
	April 1 (admission only)
Transfer students:	January 15 (admission and scholarships)
	May 1 (admission only)
International students:	April 1

The final deadline for undergraduate admission for spring semester is

First-year/Transfer:	December 1 (admission only, scholarships not awarded mid-year)
International:	October 15

New First-year Applicants

New first-year applicants are students who have not completed any college-level course work since high school graduation. Students who complete summer course work after high school graduation, but have already been admitted to KU, are still considered new first-year applicants. Once a student graduates from high school and begins attending a community college or university, he or she must qualify for admission as a transfer applicant. Students who have been admitted to KU may enroll at another college or university while they are still in high school or in the summer before entering KU without affecting their admission status. If you have credits from another institution, have the institution send an official transcript to KU's Office of Admissions and Scholarships.

Students who wish to enroll at KU while attending high school should apply under the High School Joint Enrollment Program. See Nondegree Applicants.

First-year Applicant Checklist

- The Undergraduate Application for Admission and Scholarships is available online at www.admissions.ku.edu. You can apply online, download a copy from the Web site, or obtain a copy from KU's Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045-7576, (785) 864-3911.
- Complete, sign, and return the Undergraduate Application for Admission and Scholarships with the application fee to the Office of Admissions and Scholarships. Both the application and the fee can be sent directly to KU using the Admissions and Scholarships Web site. KU uses a secured server for online submission of application fees. Fees can be paid using MasterCard, VISA, or electronic check.
- International student applicants may apply online at www.ku.edu/-issfacts or may contact the Office of International Undergraduate Admissions, Strong Hall, 1450 Jayhawk Blvd., Room 17, Lawrence, KS 66045-7535, (785) 864-2616.
- A first-time applicant must have a 3.25 cumulative high school grade-point average to be considered for KU first-year scholarships. Applicants must complete and postmark the Undergraduate Application for Admission and Scholarships by January 15. Applicants are considered for merit-based and/or merit-plus-need scholarships.
- Apply for federal financial aid by completing the Free Application for Federal Student Aid. FAFSA applications are available in all high schools and online at www.fafsa.ed.gov. KU's Title IV code is 001948.
- Ask your high school to send your current transcript and a list of all courses to be completed in your senior year. Transcripts should include class rank and cumulative grade-point average through at least the end of your junior year. Faxed copies are accepted for admission and scholarship purposes (fax: 877-582-3648). A final official transcript showing your graduation date must be mailed directly from your school to finalize your KU admis-

Admission guidelines are subject to change. Direct questions to the KU Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045-7576, (785) 864-3911, fax: (785) 864-5017, adm@ku.edu, www.admissions.ku.edu.

The Kyou portal gives Lawrence and Edwards Campus students access to many online services and resources. Visit <https://students.ku.edu>.

KU opened its doors for its first day of classes on September 12, 1866.

sion. KU must receive this final official transcript in order for you to enroll.

- ❑ Beginning with 2008 terms, first-year applicants will be required to take and submit the ACT Writing section of the exam. Official ACT or SAT scores are required. Request that your scores be sent to KU when you register for the test. If you did not have your scores sent to KU, check with your high school counselor to see if they are listed on your high school transcript. Additional copies of ACT scores are available from the American College Testing Program, P.O. Box 168, Iowa City, IA 52234. KU's ACT code is 1470. Additional copies of SAT scores are available from Admissions Testing Program, The College Board, P.O. Box 6200, Princeton, NJ 08541-6200. KU's SAT code is 6871.
- ❑ If you apply while you are still in high school, have a final copy of your transcript sent to the Office of Admissions and Scholarships after you graduate.
- ❑ If you are completing any college course work while you are still in high school, have the college send an official transcript to the KU Office of Admissions and Scholarships.
- ❑ If you have completed a General Education Diploma, have the State Department of Education send a copy of your scores to the Office of Admissions and Scholarships. Information about the GED is available on the Kansas Board of Regents Web site, www.kansasregents.org/adult_ed/ged.html.
- ❑ KU requires a \$200 enrollment deposit from new degree-seeking students who will begin in the summer or fall semesters. Go to www.admissions.ku.edu/deposit for details.
- ❑ Register to attend a summer, fall, or spring orientation and enrollment session. Orientation and registration materials are sent to all newly admitted and readmitted undergraduates. For information, contact New Student Orientation, Strong Hall, 1450 Jayhawk Blvd., Room 213, Lawrence, KS 66045-7535, (785) 864-4270, orientation@ku.edu. **Note:** If you plan to pursue an undergraduate degree-completion program at the KU Edwards Campus, contact the academic adviser, (913) 897-8659, for information about advising and enrollment.
- ❑ If you are not a native speaker of English, contact the Applied English Center, 204 Lippincott Hall, (785) 864-4606, aec@ku.edu, for information about required English language screening.

First-year Admission Requirements

Four of KU's schools admit first-semester, first-time students: the College of Liberal Arts and Sciences and the Schools of Architecture and Urban Design, Engineering, and Fine Arts. The School of Journalism and Mass Communications admits some first-year students, based on national standardized test scores combined with high school grade-point averages. The other six undergraduate schools (allied health, business, education, nursing, pharmacy, and social welfare), as well as journalism and mass communications, admit students after they have completed 30 to 90 semester credit hours of college work and filed an application for Change of School with the appropriate dean's office or advising center. See the Admission Options charts.

Kansas Board of Regents' Qualified Admission Curriculum

(One unit equals one year. For more details on this curriculum, go to www.admissions.ku.edu.)

- 4 units of English or language arts. At least one unit must be taken each year of high school.
- 3 units of natural science. Students must take three units chosen from Biology, Advanced Biology, Chemistry, General/Physical/Earth/Space Science, and/or Physics. At least one unit must be in chemistry or physics. Applied/technical courses may not be substituted for the chemistry or physics requirement.
- 3 units of mathematics. Students must complete three units at or above the level of Algebra I, taken in high school (i.e. Algebra I, Algebra 2 and Geometry). KU strongly encourages students to take a fourth unit of mathematics.
- 3 units of social sciences. See www.admissions.ku.edu for suggested classes.
- 1 unit of computer technology.
- All courses must be graded. Pass/no pass or proficiency without a grade is not accepted.

Due to classroom space limitations, first-year admission to art and design, architecture and architectural engineering, and the School of Engineering is restricted.

First-year Applicants from Kansas High Schools.

For information about requirements for Kansas resident status, see Residency Requirements under Tuition and Fees in this chapter of the catalog.

Liberal Arts and Sciences. To qualify for admission you must meet one of the following requirements:

- Achieve an ACT score of 21 or above or an SAT score of 980 (math and critical reading sections only) or above **or**
- Rank in the top third of your high school graduating class **or**
- Complete the Kansas Board of Regents' Qualified Admission curriculum with at least a 2.0 grade-point average on a 4.0 scale.

Architecture and Urban Design. Applicants, including those to architectural engineering, must rank in the top 25 percent of their high school graduating classes with grade-point averages of at least 3.0 on a 4.0 scale and ACT math scores of 26 or higher for architecture or 28 or higher for architectural engineering. Applicants are encouraged to complete physics, trigonometry, and precalculus mathematics in high school. Applications must be received by February 1 for the following fall semester.

Engineering. Admission is competitive. Students must be in the top half of their graduating classes, have 3.0 grade-point averages on a 4.0 scale, and have mathematics ACT scores of 22 or higher. Some engineering degree programs may require higher math ACT scores. Applications for admission must be submitted by April 1 for the fall semester. Early applications are encouraged.

Fine Arts. Admission is competitive. Students must complete the Kansas Board of Regents Qualified Admission Curriculum with at least a 2.5 grade-point average on a 4.0 scale, **or** earn an ACT score of 21 or higher or an SAT score of 980 or higher, **or** rank in the top one-third of the high school class. Music admission is

(continued on page 20)

Admission Options for First-year and Transfer Students

If you enter KU as a first-year student, you must enter one of these schools. Transfer students also may enter these schools if they are eligible. Apply as early as possible. Spaces in some programs may fill before the deadlines. All references to grade-point averages (GPA) use a 4.0 scale.

To enter	As an/a	Meet these admission requirements	To enter in	Apply by
College of Liberal Arts & Sciences (CLAS)	● In-state high school, first-year student	● (1) have an ACT score of 21 or higher or an SAT score of 980 (math and critical reading sections only) or higher, or (2) rank in top one-third of your high school class, or (3) have a 2.0 GPA on a 4.0 scale in the Kansas qualified admission college-prep curriculum (see page 17).	● Fall Spring Summer	April 1 December 1 April 1
	■ Out-of-state high school, first-year student	■ (1) have an ACT score of 24 or higher or an SAT score of 1090 (math and critical reading sections only) or higher with a 2.0 or higher GPA, or (2) rank in top one-third of your high school class, or (3) have a 2.5 GPA on a 4.0 scale in the Kansas qualified admission college-prep curriculum (see page 17).	■ Fall Spring Summer	April 1 December 1 April 1
	▲ Transfer	▲ Attending an in-state institution: when applying, have completed at least 24 hours with a 2.0 or higher GPA from a Kansas community college or university. Attending an out-of-state institution: when applying, have completed at least 24 hours with a 2.5 or higher GPA from a community college or another regionally accredited college or university. NOTE: Students applying with fewer than 24 hours must meet different requirements (see page 17). Students who now attend a Kansas college but attended an out-of-state college before must meet the out-of-state requirement.	▲ Fall Spring Summer	May 1 December 1 May 1
School of Architecture & Urban Design including architectural engineering	● In-state high school, first-year student	● (1) graduate in the top 25 percent of your class at an accredited Kansas high school with a 3.0 or higher GPA, and (2) take 3 years of science including a course in physics (recommended) and 3 years of math including trigonometry, precalculus math, or calculus (preferred), and (3) have an ACT math score of at least 26 (600 math SAT) or for architectural engineering, a score of at least 28 (640 math SAT).	● ■ Fall Spring Summer	February 1 October 1 February 1
	■ Out-of-state high school, first-year student	■ (1) graduate in the top 15 percent of your high school class with a 3.0 or higher GPA, and (2) take 3 years of science, including a course in physics (recommended), and 3 years of math, including trigonometry, precalculus, or calculus (preferred), and (3) have an ACT math score of at least 26 (600 math SAT) or for architectural engineering, a score of at least 28 (640 math SAT).		
	▲ Transfer	▲ (1) have at least a 3.5 GPA and (2) complete appropriate college-level calculus and physics courses with a grade of C or higher. <i>Admission is competitive. Consult the dean's office.</i>	▲ Fall Spring	February 1 October 1
School of Engineering except architectural engineering	● In-state high school, first-year student	● ■ (1) have a 3.0 or higher GPA, (2) rank in the top half of your high school class, and (3) have a minimum math ACT score of 22 (540 on math SAT). Some engineering majors may require a higher score. <i>Meeting minimum requirements won't guarantee admission.</i>	● ■ Fall Spring Summer	April 1 December 1 April 1
	■ Out-of-state high school, first-year student			
	▲ Transfer	▲ (1) evaluated on a case-by-case basis, (2) have an overall college GPA of at least 2.5, and (3) have a minimum score of 22 or higher on ACT math test or a C or higher in Calculus I. <i>Meeting minimum requirements won't guarantee admission.</i>	▲ Fall Spring Summer	May 1 December 1 May 1
School of Fine Arts	● In-state high school, first-year student	● ■ (1) have a 2.5 or higher GPA in the Kansas qualified admission college-prep curriculum (see page 17), or (2) have an ACT score of 21 or higher or an SAT score of 980 or higher, (24 or higher ACT or 1090 or higher SAT with a 2.0 or higher GPA for out-of-state students), or (3) rank in top one-third of your high school class.	● ■ Fall (Art & Design) (Music & Dance) Spring (all) Summer (all)	December 1 February 1 October 1 December 1
	■ Out-of-state high school, first-year			
	▲ Transfer & change-of-school	▲ (1) have a 3.0 or higher GPA from any college or university, including KU. <i>Contact the school for information about required music auditions. Art and design applicants who are denied admission may request a portfolio review for reconsideration. Admission is competitive.</i>	▲ Same as above	Same as above
School of Journalism	● ■ First-year (fall 2006 and after)	Beginning fall 2006, incoming first-year students may apply for direct admission if they have ACT scores of 33 in English and 30 composite, or equivalent SAT scores, plus 3.7 or higher high school GPAs.	● ■ Fall Spring Summer	February 1 September 1 February 1
International students		All international and those domestic applicants whose first language is not English should read pages 23-24 of this catalog. Deadlines vary by major and may be earlier than those listed here.	Fall Spring Summer	April 1 October 15 April 1

Admission Options Beyond the First-year Level

First-year students who plan eventually to enter the schools in this chart usually begin in the College and apply as sophomores, juniors, or seniors. Eligible transfer students also may apply to enter these schools. Apply as early as possible. Some programs may fill before the deadlines.

To enter	As a	Meet these admission requirements	To enter in	Apply by
CLAS majors in communication studies, English, political science, psychology, sociology, & Spanish	▲ Sophomore (30 to 45 hours)	▲ apply for admission, meet specific GPA requirements in KU courses, and take certain prerequisites; not all students meeting minimum requirements are admitted. Complete an application in the appropriate department office. <i>For detailed information, see pages 55 and 56 and consult the academic department.</i>	▲ ENGL, POLSongoing SOC, SPANongoing Fall: COMS1st 2 wks. Sept. PSYC1st 2 wks. Sept. Spring: COMS1st 2 wks. Feb. PSYC1st 2 wks. Feb. Summer: PSYC.....1st 2 wks. Jun.	
School of Allied Health	▲ Junior (CLS, HEIM, RESP) ▲ Senior (CYTO, OCTH)	▲ Admission requirements and prerequisites vary by major. See chart, pages 228-229. <i>Visit www.alliedhealth.kumc.edu for complete information.</i>	▲ • SAH early app...September 1 • OCTH: early app.....Sept. 15 SAH app.....Dec. 15 Dept. app.Feb. 1 • CLS:January 15 • *RESP:February 15 • CYTO, *HEIM: March 1 <i>*Apps. accepted until programs are full</i>	
School of Business	▲ Junior (60 hours or more)	▲ achieve a 2.5 GPA in <i>all courses</i> , in <i>all professional (business & economics) courses</i> , in <i>courses completed at KU</i> , and in <i>professional courses completed at KU</i> (excluding activity hours). <i>Admission is competitive.</i> <i>Guaranteed admission.</i> Students meeting minimum requirements who have earned at least a 3.0 GPA in all professional courses and who completed ACCT 200, ACCT 201, and DSCI 301 at KU at the time of application are guaranteed admission. <i>Consult Student & Academic Services, 206 Summerfield, (785) 864-7500.</i>	▲ Fall February 15 Spring September 15 Summer February 15 (complete an online application)	
School of Education	▲ Sophomore /Junior (45 hours or more)	▲ (1) for teacher education programs, complete core of specific prerequisites with 2.75 GPA and cumulative GPA of 2.75 (2) pass three sections of the Pre-Professional Skills Test before submitting application, and (3) complete admission requirements as specified in the School of Education chapter of this catalog, and (4) submit electronic application, available at www.soe.ku.edu . <i>Consult a pre-education adviser immediately upon entering KU. Admission in selective programs is competitive.</i>	▲ Teaching fields: Fall February 1 Athletic training: Fall May 1 No admission for summer or spring Sport science/community health: Fall February 1 Spring September 15	
School of Journalism & Mass Communications	▲ Sophomore (entered college before fall 2006, 30 to 45 hours) ▲ Junior (entered college before fall 2006, 60 hours or more) ▲ Sophomore (fall 2006, 45 hours)	▲ (1) <i>early admission</i> at 30 hrs.: English ACT 27 or higher or SAT verbal 500 or higher, cumulative 3.0 or higher GPA, JOUR 101 with 2.0 or higher GPA or enrollment in it, ENGL 101 with 3.0 GPA or exemption, enrollment in ENGL 102 or 105, MATH 101 or enrollment in it, COMS 130 or 230 or distribution course in humanities or social science or a lab science; or (2) <i>advanced admission</i> at 45 hrs.: required courses with 3.0 cumulative GPA. ▲ (3) <i>standard admission</i> at 60 hours: JOUR 101 with 2.0 or higher GPA; 2.5 or higher overall GPA; 2.67 GPA in three required English courses or 3.0 in transferred English courses; COMS 130 or 230; humanities, economics, social sciences courses; natural science lab course; complete all 1st- and 2nd-year requirements incl. foreign language through 2nd level and one math course from page 362. ▲ (4) entered college in fall 2006 or after, completed at least 45 hrs., completed required courses for admission with 2.5 minimum cumulative GPA. <i>All admission is competitive based on cumulative GPA.</i>	▲ Fall February 1 Spring September 1 Summer February 1	
School of Nursing	▲ Junior (62 hours or more)	▲ (1) have a 2.5 or higher GPA, and (2) take prerequisite courses (courses in which a D or F is earned do not count toward graduation), and (3) submit application available from the student affairs office, (913) 588-1619. <i>Consult the prenursing adviser, (785) 864-2834. Admission is competitive.</i>	▲ Fall October 15 No admission for summer or spring. Late applications considered if space permits	
School of Pharmacy	▲ Junior (60 hours or more)	▲ (1) have a 2.5 or higher GPA, and (2) take prerequisite courses. <i>Consult the dean's office, (785) 864-3591. Admission is competitive. The PCAT is required.</i>	▲ Fall February 1 No admission for summer or spring	
School of Social Welfare	▲ Sophomore (30 hours or more)	▲ (1) have a 2.5 or higher GPA, and (2) complete the math and English requirements, and (3) submit application available from 107 Twente Hall. <i>Consult presocial work adviser, (785) 864-4720 before or during first year.</i>	▲ Fall February 1 October 1 Transfer review June 1 (Applications for fall semester accepted three times a year)	
International students		All international and those domestic applicants whose first language is not English should read pages 23-24 of this catalog.	Deadlines vary by major	

(continued from page 17)

contingent upon a successful audition. Art and Design have limited studio space and admit qualified applicants only as long as space is available. Applications must be submitted by February 1 in Music and Dance and by December 1 in Art and Design for the fall semester. Early applications and auditions are encouraged.

Journalism and Mass Communications. Requirements for direct admission of first-year students include ACT scores of 33 in English and 30 composite, or comparable SAT scores, and high school grade-point averages of at least 3.7 on a 4.0 scale.

Applicants from Kansas Home Schools and Nonaccredited Kansas High Schools. Students must submit all transcripts and obtain a score of 21 on the ACT or 980 (math and critical reading sections only) on the SAT for admission consideration.

First-year Applicants from Out-of-state High Schools. For information about requirements for Kansas resident status, see Residency Requirements under Tuition and Fees in this chapter of the catalog.

Liberal Arts and Sciences. To qualify for admission you must meet one of the following requirements:

- Achieve an ACT score of 24 or above or an SAT score of 1090 (math and critical reading sections only) or above with a cumulative 2.0 or higher grade-point average on a 4.0 scale **or**
- Rank in the top third of your high school graduating class **or**
- Complete the Kansas Board of Regents' Qualified Admission curriculum with at least a 2.5 grade-point average on a 4.0 scale.

Architecture and Urban Design. Applicants, including those to architectural engineering, must rank in the top 15 percent of their high school graduating classes with grade-point averages of at least 3.0 on a 4.0 scale and ACT math scores of 26 or higher for architecture or 28 or higher for architectural engineering. Applicants are encouraged to complete physics, trigonometry, and precalculus mathematics in high school. Applications must be received by February 1 for the following fall semester.

Engineering. Admission is competitive. Students must be in the top half of their graduating classes, have 3.0 grade-point averages on a 4.0 scale, and have mathematics ACT scores of 22 or higher. Some engineering degree programs may require higher math ACT scores. Applications for admission must be submitted by April 1 for the fall semester. Early applications are encouraged.

Fine Arts. Admission is competitive. Students must complete the Kansas Board of Regents Qualified Admission Curriculum with at least a 2.5 grade-point average on a 4.0 scale, **or** earn an ACT score of 24 or higher or an SAT score of 1090 or higher with a cumulative 2.0 or higher grade-point average, **or** rank in the top one-third of the high school class. Music admission is contingent upon a successful audition. Art and Design have limited studio space and admit qualified applicants only as long as space is available. Applications must be submitted by February 1 in Music and Dance and by December 1 in Art and Design for the fall semester. Early applications and auditions are encouraged.

Journalism and Mass Communications. Requirements for direct admission of first-year students include ACT scores of 33 in English and 30 composite, or comparable SAT scores, and high school grade-point averages of at least 3.7 on a 4.0 scale.

Applicants from Out-of-state Home Schools and Nonaccredited Out-of-state High Schools. Students must submit all transcripts and obtain a score of 24 on the ACT or 1090 (math and critical reading sections only) on the SAT for admission consideration.

General Education Diploma (GED) Applicants. To qualify for admission, you must have an overall score of 2250 points and a score of not less than 450 points on each subtest. You also must submit ACT or SAT scores.

First-year International Student Applicants. Admission requirements and deadlines vary depending on the program, the student's previous level of education, and the semester of entry. See International Student Applicants.

Non-native Speakers of English. If English is not your first language, you must visit the KU Applied English Center, 204 Lippincott Hall, aec@ku.edu, before your first enrollment. This is required even if you graduated from an accredited Kansas or other U.S. high school or are a U.S. citizen or permanent resident. You may be required to take an English Language Proficiency Test and to enroll in English language courses if you do not pass that test. See Students Whose First Language is Not English.

High School Early Admission Program. High school students who are interested in becoming full-time, degree-seeking students at KU may be admitted if they have completed all of their requirements for high school graduation early. This program is designed for students with the emotional maturity as well as the academic ability and background necessary to excel at the university at a younger age. Interested students must submit applications for admission, ACT or SAT scores, high school transcripts, and letters of permission/recommendation from their high school principal and their parent(s) or guardian(s) by the appropriate deadlines.

For information about the High School Joint Enrollment Program, see Nondegree Applicants.

Appeals

Students who are denied admission may appeal the decision formally in writing to the director of admissions and scholarships. KU's admission appeals committee reviews appeals.

Transfer Applicants

Transfer applicants are those who have attended another institution of higher education since graduating from high school or receiving a GED.

If you plan to transfer to one of KU's professional schools, contact the school directly one year before you plan to enter the program. Consult the chapter of this catalog that describes the appropriate program.

Transfer Applicant Checklist

- The Undergraduate Application for Admission and Scholarships is available online at www.admissions.ku.edu. You can apply online, download a copy from the Web site, or obtain a copy from KU's Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045-7576, (785) 864-3911.
- Complete, sign, and return the Undergraduate Application for Admission and Scholarships with the application fee to the Office of Admissions and Scholarships. Both the application and the fee can be sent directly to KU using the Admissions and Scholarships Web site. KU uses a secured server for

The High School Joint Enrollment program is described on page 23.

For information about orientation and transfer day programs, contact New Student Orientation, Strong Hall, 1450 Jayhawk Blvd., Room 213, Lawrence, KS 66045-7535, (785) 864-4270, orientation@ku.edu, www.orientation.ku.edu.

The Kansas Board of Regents' Qualified Admission Curriculum is on page 17.

- online submission of application fees. Fees can be paid using MasterCard, VISA, or electronic check.
- ❑ International student applicants may apply online at www.ku.edu/~issfacts or may contact the Office of International Undergraduate Admissions, Strong Hall, 1450 Jayhawk Blvd., Room 17, Lawrence, KS 66045-7535, (785) 864-2616.
 - ❑ A transfer applicant must have a 3.25 cumulative college grade-point average to be considered for KU transfer scholarships. Applicants must complete and postmark the Undergraduate Application for Admission and Scholarships by January 15. Applicants are considered for merit-based scholarships.
 - ❑ Request an official transcript from each post-secondary institution you have attended. To be official, transcripts must be mailed directly to the Office of Admissions and Scholarships from the institution or delivered directly from the school in a sealed envelope. Faxed copies are accepted for admission and scholarship purposes (fax: 877-582-3648). However, an official transcript showing your final semester grades must be mailed directly from your school to be evaluated for transfer of credit and to finalize your admission to KU.
 - ❑ If you have completed fewer than 24 college credit hours at the time you apply to KU, ask your high school to send an official copy of your transcript and ACT or SAT scores to the Office of Admissions and Scholarships.
 - ❑ Apply for federal financial aid by completing the Free Application for Federal Student Aid. FAFSA applications are available online at www.fafsa.ed.gov. KU's Title IV code is 001948.
 - ❑ KU requires a \$200 enrollment deposit from new degree-seeking students who will begin in the summer or fall semesters. Go to www.admissions.ku.edu/deposit for details.
 - ❑ Register to attend a summer, fall, or spring orientation and enrollment session. Orientation and registration materials are sent to all newly admitted undergraduates. Contact New Student Orientation, Strong Hall, 1450 Jayhawk Blvd., Room 213, Lawrence, KS 66045-7535, (785) 864-4270, orientation@ku.edu.
Note: If you plan to pursue an undergraduate degree-completion program at the KU Edwards Campus, contact the academic adviser, (913) 897-8659, for information about advising and enrollment.

Transfer Credit Evaluation. All transfer students must complete a minimum of 30 hours at KU regardless of the number of hours of credit they earned from other colleges. To receive transfer credit, you must have attended an institution accredited by a regional accrediting body, such as the North Central Association of Colleges and Schools, which accredits KU. International colleges and universities must be officially recognized by the Ministry of Education in their countries for students to receive transfer credit. The College and some professional schools do not accept grades of D for transfer credit. See Transfer of Credit in the General Regulations chapter of this catalog. The Office of Admissions and Scholarships and your school conduct a thorough review of your college credits upon your admission to KU. Before enrollment, new transfer students should understand what credits were accepted by KU and how they fulfill degree requirements. Apply for admission as a

Earliest Admission Points for the Schools

School	Admits students as	For further information
College of Liberal Arts & Sciences (CLAS)	¹ First-year students	See pages 17, 18, 19, 20, 22, 53, 55-56
Allied Health		
Clinical Laboratory Science	Juniors	See pages 19, 227, 228-229
Cytotechnology	Seniors	See pages 19, 227, 228, 232
Health Information Management	Juniors	See pages 19, 227, 229, 234
Occupational Therapy	Seniors	See pages 19, 227, 229, 237
Respiratory Care	Juniors	See pages 19, 227, 229, 239-240
Applied English Center	First-year students	See pages 17, 18, 19, 20, 22, 23, 24, 397
Architecture & Urban Design	First-year students	See pages 17, 18, 20, 245-246
Business	Juniors	See pages 19, 257-258
Education	² Sophomores/Juniors	See pages 19, 273-274, 275-276, 283, 284, 285, 286
Engineering	First-year students	See pages 17, 18, 20, 299
Fine Arts	First-year students	See pages 17, 18, 20, 331-332, 344-345
Journalism & Mass Communications	First-year students/ Sophomores/Juniors	See pages 18, 19, 20, 22, 361-362
Nursing	Juniors	See pages 19, 371-372
Pharmacy	Juniors	See pages 19, 379-380
Social Welfare	Sophomores	See pages 19, 389

¹Some departments have admission requirements at the sophomore level or above for students wishing to pursue that major.

²Some teacher education programs have competitive admission. Students are admitted to teaching programs and the HSES athletic training program once a year and to HSES sport science and community health programs twice a year.

Each school's chapter contains specific information about admission, transfer of credit, and change of school procedures. The General Regulations chapter contains Transfer of Credit and Change of School sections. The sections on advising in each school's chapter may be helpful. Deans' offices or advising centers can answer questions about admission to particular schools. See also the charts of Admission Options.

The High School Early Admission program is described on page 20.

International Student and Scholar Services, Strong Hall, 1450 Jayhawk Blvd., Rm. 2, Lawrence, KS 66045-7535, iss@ku.edu, offers services for international students and foreign visitors.

KU's academic calendar for 2006-2008 is on page 10.

The myKUMC student portal gives KU Medical Center students access to online resources. Visit <https://my.kumc.edu>.

first step. Only transfer students who have been admitted to KU receive an official credit evaluation.

Transfer Admission Requirements. Students who have completed any college course work since high school graduation are considered transfer students, although students with fewer than 24 credit hours must submit high school transcripts, standardized test scores, and college transcripts. For students who have completed fewer than 24 hours when they apply, admission decisions are based on both high school and college performance. All transfer applicants must be in good standing at the institution they attended previously and meet additional admission requirements for the school they plan to enter at KU. All transfer applicants must meet appropriate deadlines. See Admission Options charts.

Liberal Arts and Sciences. Students interested in transferring into KU's College of Liberal Arts and Sciences must meet one of these admission standards:

In-state Schools: A cumulative grade-point average of at least 2.0 on a 4.0 scale from a Kansas community college or Kansas college or university (students with fewer than 24 credit hours are reviewed on the basis of both high school and college performance). *Students who have attended both in-state and out-of-state colleges must meet the out-of-state admission requirements.*

Out-of-state Schools: A minimum of 24 credit hours from any accredited institution of higher education with a minimum cumulative grade-point average of 2.5 on a 4.0 scale (students with fewer than 24 credit hours are reviewed on the basis of both high school and college performance). *Students who have attended both in-state and out-of-state colleges must meet the out-of-state admission requirements.*

Some College departments have competitive admission. See individual department sections in the College of Liberal Arts and Sciences: Majors, Minors, and Courses chapter of this catalog for requirements.

Professional Schools. Transfer admission requirements for the professional schools (allied health, architecture and urban design, business, education, engineering, fine arts, journalism and mass communications, nursing, pharmacy, and social welfare) are more stringent. See Admission Options charts.

School of Journalism and Mass Communications. Admission is competitive based on cumulative grade-point averages.

Non-native Speakers of English. If English is not your first language, you must visit the KU Applied English Center, 204 Lippincott Hall, aec@ku.edu, before your first enrollment. This is required even if you graduated from an accredited Kansas or other U.S. high school or are a U.S. citizen or permanent resident. You may be required to take an English Language Proficiency Test and to enroll in English language courses if you do not pass that test. See Students Whose First Language is Not English.

Readmission

Readmission for former students applies to any student who has completed at least 1 hour of credit at KU. Former KU students must submit applications for readmission if their lapse in attendance is one semester or more. Applicants may be readmitted if they left KU in good standing and are in good standing with all other institutions they have attended since their enrollment at KU. Contact the Office of Admissions and Scholarships, www.admissions.ku.edu, or the Office of International Undergraduate Admissions for deadlines.

Students who applied to KU and were accepted but never attended must reapply for admission as new first-year or transfer applicants. See the First-year or Trans-

fer Applicants sections. Admission offers are valid only for the semester specified in the admission letter.

Readmission Applicant Checklist

- The Undergraduate Application for Readmission is online at www.admissions.ku.edu. Some schools require students who have been dismissed to petition for readmission. Consult your dean's office.
- Complete, sign, and submit your application for readmission to the Office of Admissions and Scholarships.
- If you have attended another institution since KU, have an official transcript from each institution sent to the Office of Admissions and Scholarships.
- Apply for financial aid (www.fafsa.ed.gov). KU's Title IV code is 001948.
- You may elect to participate in continuing student enrollment, or you may attend an abbreviated orientation program. If you have questions about which process is best for you, consult your adviser or contact the Student Records Center, 151 Strong Hall, (785) 864-4423, enrollment@ku.edu.
- International students should check with the Office of International Undergraduate Admissions, Strong Hall, 1450 Jayhawk Blvd., Room 17, Lawrence, KS 66045-7535, (785) 864-2616, or online at www.ku.edu/~issfacts.

Readmission Requirements. Applicants to the College who were academically dismissed must meet readmission requirements (see Probation and Dismissal in the General Regulations chapter of this catalog).

Applicants who wish to change schools must meet the requirements and deadlines for the school in which they plan to study. Refer to the chapter on that school in this catalog for details.

School of Fine Arts. Applicants requesting admission after attending another university must meet transfer admission requirements on the Admission Options charts. Music admission is contingent upon a successful audition. Early applications and auditions are encouraged.

Nondegree Applicants

The nondegree category of admission is designed for students who

- Are attending another college or university and want to enroll at KU for one or two courses.
- Are adult students not interested in degrees who would like to enroll in one or two courses.
- Want to take a college-level course while still in high school.
- Want to take undergraduate courses for graduate school or for a certification program.

Students who have been denied regular admission as first-year or transfer students, or other degree-seeking students who did not meet admission deadlines, are not eligible for nondegree admission. Admission as a nondegree student also is denied if the applicant has prior academic work at KU and is not eligible for readmission. See Readmission. Generally, nondegree students are not eligible for student housing and are limited to 6 credit hours per semester unless they receive special permission to exceed the limit. Nondegree students typically are not eligible for federal financial aid. Contact the Office of Student Financial Aid, Strong Hall, 1450 Jayhawk Blvd., Room 50, Lawrence, KS 66045-7535, (785) 864-4700, for exceptions. Grades earned as a nondegree student do not count automatically toward graduation or in the graduation grade-point average. Some schools may allow students to include them by petition.

Nondegree Applicant Checklist

- The undergraduate nondegree application is online at www.admissions.ku.edu. You may apply online, download a copy from the Web site, or obtain a copy from the KU Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045-7576, (785) 864-3911.
- Submit the completed application to the Office of Admissions and Scholarships with the application fee, payable to the University of Kansas.

Nondegree Applicant Admission Requirements.

Four distinct categories of students qualify for consideration as nondegree students:

Life-long Learner Applicants. Course work taken in this category is intended for personal enjoyment or to enhance employment opportunities.

High School Joint Enrollment Program. Academically talented high school students may be admitted before high school graduation. Submit the nondegree application for admission along with a high school transcript, ACT or SAT scores, a letter of recommendation from the high school counselor or principal, and a letter of permission from parent(s) or guardian(s). Course work to be completed at KU must be at a level beyond that available in high school. Students interested in the High School Early Admission Program should read First-year Admission Requirements.

Visiting Students. Students from other colleges or universities who want to transfer course work back to institutions where they are seeking degrees may enroll in courses at KU. Check with departments to determine your eligibility and to learn if courses are available.

Post-baccalaureate Applicants. Individuals with previous undergraduate degrees may seek admission as nondegree-seeking students. A student who wishes to earn a second baccalaureate degree should not enroll as a nondegree-seeking student. See Transfer Applicants.

International students interested in nondegree admission should check with International Undergraduate Admissions for information about requirements and immigration implications.

Applicants interested in graduate course work as degree-seeking or nondegree-seeking students should contact the University of Kansas Graduate School, Strong Hall, 1450 Jayhawk Blvd., Room 300, Lawrence, KS 66045-7535, (785) 864-6161, gradschl@ku.edu.

International Student Applicants

An international student applicant is a student who is not a U.S. citizen and/or does not have U.S. permanent residence or political asylum. U.S. citizens, U.S. permanent residents, and U.S. political asylees apply through the Office of Admissions and Scholarships. All nonimmigrants must apply through the Office of International Undergraduate Admissions.

International Student Applicant Checklist

- Contact the University of Kansas, Office of International Undergraduate Admissions, Strong Hall, 1450 Jayhawk Blvd., Room 17, Lawrence, KS 66045-7535, U.S.A., issapps@ku.edu, and request the International Student Application packet, or visit the Web site, www.ku.edu/~issfacts.
- Return the completed application to the Office of International Undergraduate Admissions, along with original official academic records including diplo-

mas, completion certificates, transcripts, and mark sheets or test results, by the deadline. Students seeking an I-20 for F-1 student status or a DS-2019 for J-1 student exchange visitor status also must submit proof of adequate finances with the application. See Admission Options chart in the international undergraduate application form or online. All documents must be submitted in your native language with an English translation. All forms become the property of KU and will not be returned. **Apply online** at www.ku.edu/~issfacts. Submit original transcripts and financial documents to the Office of International Undergraduate Admissions.

International Student Admission Requirements.

Nonimmigrant international applicants may be admitted to KU if they are academically admissible and have formally completed secondary education, fulfilled minimum grade-point average equivalency requirements, provided official academic records, and met established deadlines. Some academic programs have more stringent admission standards. Please read the description for each program of interest. Students seeking an I-20 for F-1 student status or a DS-2019 for J-1 student exchange visitor status also must verify that adequate financial support is available. Estimated 2005 expenses for nine months range from \$22,174 to \$25,099. KU's International Student Viewbook is online at www.ur.ku.edu/Acadpub/IntStudents.

International students are not required to present Test of English as a Foreign Language (TOEFL) scores or to provide proof of English proficiency with their undergraduate applications. Enrollment of international students, including transfer students, in academic courses is restricted until English language proficiency is verified. All students from abroad, including students from English-speaking countries, must visit KU's Applied English Center for verification of English language skills.

If you have a recent TOEFL score report (within the last two years) with the scores below, you are not required to take courses in English as a second language.

- Paper-based test scores of 57 on each section with a 4.5 or higher on the Test of Written English **or**
- Computer-based test scores of 23 or higher on each section and a score of 4.5 on the essay.
- Internet-based test scores of 23 or higher on each section and a score of 4.5 on the essay.

If you have an official Test Report Form (within the last two years) for the **academic** format of the International English Language Testing System (IELTS) with an overall band score of 6.5 and no part score lower than 6.0, you are not required to take courses in English as a second language.

KU's English language test determines whether you can understand university lectures in English, read academic material quickly with good comprehension, write good paragraphs in answer to questions about the material, complete English sentences grammatically, and write an acceptable short essay in 30 minutes without using a dictionary. If you do not pass the test, you must take either part-time or full-time English language courses at KU for one or more semesters until you pass the test. If you pass the test, you can begin full-time KU course work as a fully admitted student. A limited number of Applied English Center courses are counted toward graduation by some programs at KU.

The Freshman-Sophomore Advising Center offers advising services in Strong Hall, 1450 Jayhawk Blvd., Room 126, Lawrence, KS 66045-7535, (785) 864-2834, advising@ku.edu, www.advising.ku.edu.

The College of Liberal Arts and Sciences offers undergraduate advising for degree completion programs on the KU Edwards Campus, (913) 897-8400, <http://edwardscampus.ku.edu>.

Applied English courses are listed in the Other Programs chapter of this catalog.

To apply directly to the Applied English Center for English language study only, write to the Applied English Center, the University of Kansas, Lippincott Hall, 1410 Jayhawk Blvd., Room 204, Lawrence, KS 66045-7515, U.S.A., e-mail: aec@ku.edu, www.aec.ku.edu.

All international students at KU must have health insurance. For information, contact the International Health Insurance Coordinator at International Student and Scholar Services, 2 Strong Hall, or read the health insurance policy online at www.ku.edu/~issfacts.

U.S. Permanent Residents, Refugees, and Those Here in Political Asylum. Students from other lands who are U.S. permanent residents, refugees, or who are here in political asylum must verify their status and should apply as domestic students through the Office of Admissions and Scholarships. See First-year Applicants or Transfer Applicants.

If an application for immigrant status is pending, students must verify their status when they apply for admission through the Office of International Undergraduate Admission. See International Student Applicants.

Students Whose First Language is Not English

The Applied English Center determines the English proficiency level of all non-native speakers of English and specifies which Applied English Center courses, if any, these students must take to be eligible to enroll in regular KU courses. This requirement applies to all international students, residents or citizens of the United States, and foreign students, regardless of whether they have attended or graduated from accredited Kansas or other U.S. high schools. See International Student Applicants. All undergraduates must enroll in the appropriate English course in their first semester at KU. Students must maintain continuous enrollment in appropriate English courses, whether these are Applied English Center or Department of English courses, until they have met English proficiency requirements through the Applied English Center and completed all courses in the Department of English required by their degree programs.

ACT or SAT Examinations

All new first-year and transfer students with fewer than 24 hours of college credit must complete the ACT or SAT test before they enroll. Testing Services in Counseling and Psychological Services, 2150 Watkins Memorial Health Center, gives the ACT examination periodically and during the week of orientation, but you are strongly encouraged to take it before you arrive on campus. The scores are used for many purposes before the beginning of classes.

Advanced Placement

AP Credit. KU encourages students to take Advanced Placement Examinations in any of the areas under the College Entrance Examination Board program. KU only gives credit in certain courses with certain scores from the AP examinations. See www.admissions.ku.edu for current information.

The results of these examinations must be sent to KU directly from CEEB. Departments may grant advanced placement and/or credit on the basis of the test scores. No college grade is assigned when advanced placement credit is given. Instead, a credit is recorded on the student's KU record. No fee, beyond that charged by CEEB, is assessed for such college

credit or placement. For information on how Advanced Placement scores in English and mathematics affect graduation requirements and initial enrollment in all schools, see Bachelor of Arts Degree Requirements in the College of Liberal Arts and Sciences: General Requirements chapter and the English and math department sections of this catalog. Contact the Office of Admissions and Scholarships, (785) 864-3911, www.admissions.ku.edu, for information.

College Level Examination Program. General and subject examinations in several fields are accepted at KU as a means of awarding credit for nontraditional work. The manner in which credit is given ranges from awarding credit for a comparable KU course to granting an exemption from prerequisites without an award of credit hours toward the degree. The required minimum score varies with the examination, usually falling within the 50th to 70th percentile range. Contact the Office of Admissions and Scholarships, (785) 864-3911, www.admissions.ku.edu, for information.

Credit by Examination. KU offers its own program of advanced credit examinations. See Credit by Examination in the General Regulations chapter. (**Warning:** Some medical schools do not accept credit by examination.)

International Baccalaureate Program. If you have taken International Baccalaureate classes while in high school, please check www.admissions.ku.edu to determine the credit given for those classes. An official IB transcript must be forwarded to the Office of Admissions and Scholarships for review. No college grade is assigned when credit is given. Instead, credit is recorded on the KU record. No fee, beyond that charged by IB, is assessed for credit or placement. Contact the Office of Admissions and Scholarships, (785) 864-3911, www.admissions.ku.edu, for information.

Scholarships

KU is committed to recruiting excellent, motivated undergraduate students. Academically talented students who are interested in pursuing their education at KU are encouraged to apply for scholarships. Scholarships are awarded competitively from both in-state and out-of-state applicant pools.

In fall 2005, KU offered \$8 million in academic scholarships to KU students. KU's academic schools and departments also offer scholarships to prospective first-year and upper-level students.

To apply, prospective **first-year students** must complete the Undergraduate Application for Admission and Scholarships, www.admissions.ku.edu. A 3.25 overall high school grade-point average is required for applications to be submitted to the scholarship committee. Students must submit a list of activities and a scholarship essay as part of the complete application for scholarships. Students are evaluated on the high school curriculum, official standardized test scores, high school unweighted cumulative grade-point average, demonstrated leadership and community service, and scholarship essay. If your completed application is received by November 1, a letter will be mailed by late January detailing the committee's decision. Letters are mailed by late March to students whose completed applications are received by the January 15 deadline.

Scholarships are awarded on a rolling basis. If you are eligible for and offered a departmental scholarship, you will be notified directly by the department. Recipients of scholarships from the Schools of Engineering and Business receive joint award letters from the professional school and the Office of Admissions and Scholarships. Scholarship applications must be completed and postmarked no later than January 15.

Note: December is the last possible test date to receive scores in time for the scholarship application deadline.

School of Fine Arts. Additional merit-based scholarships are available to majors in music, dance, art, and design. For more information, please contact the appropriate department.

To apply, prospective **transfer students** must complete the Undergraduate Application for Admission and Scholarships, www.admissions.ku.edu. A 3.25 overall college grade-point average is required for applications to be submitted to the scholarship committee. Students must submit a list of activities and a scholarship essay as part of the complete application for scholarships. Students are evaluated on the college career based on the strength of the college curriculum, grade-point average, demonstrated leadership and community service, and scholarship essay. Some transfer scholarships require a letter of recommendation. See www.admissions.ku.edu for details. To be eligible for scholarships, students must have completed 24 college hours when they enroll at KU. If your completed application is received by November 1, a letter will be mailed by late January detailing the committee's decision. Letters are mailed by late March to students whose completed applications are received by the January 15 deadline. Scholarships are awarded on a rolling basis. Scholarship applications must be complete and postmarked no later than January 15.

International student applicants may contact the Office of International Undergraduate Admissions, Strong Hall, 1450 Jayhawk Blvd., Room 17, Lawrence, KS 66045-7535, (785) 864-2616, or review information online at www.ku.edu/~issfacts.

For more information and a list of scholarships, contact the KU Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045-7576, (785) 864-3911, adm@ku.edu.

Reduced Tuition Funding

The Midwest Student Exchange Program, administered by the Office of Admissions and Scholarships, enables residents of Michigan, Minnesota, Missouri, Nebraska, North Dakota, and Wisconsin to attend KU at reduced tuition levels. Each year, 35 new KU students receive awards from this program. Complete the Undergraduate Application for Admission and Scholarships. **Only applicants intending to enroll and major in the following programs are considered:** African and African-American studies; American studies; astronomy; classics; dance; engineering physics; geology; health education/community health; humanities; journalism and mass communications; Latin American studies; linguistics; microbiology; music education; music therapy; petroleum engineering; physics; religious studies; Russian, East European, and Eurasian studies; Slavic languages and literatures; visual art education; and women's studies.

Immunizations

Lawrence. All vaccines for immunizations are available through Student Health Services. All Immunization Policies and History Forms are available on the Web site, www.studenthealth.ku.edu. The following vaccinations are required:

Measles, Mumps, Rubella Vaccination. All newly admitted or readmitted students born after January 1, 1957, must show proof of two vaccinations for measles, mumps, and rubella (MMR), or titers confirming immunity, before enrollment. The second MMR must have been after 1980. A copy of medical documentation including a signature by a medical professional provides proof. Student Health Services may grant exceptions for medical or religious reasons.

Meningitis Vaccination. All incoming students living in university housing must *either* provide written documentation of immunization *or* sign a waiver to indicate they have been informed about the disease and vaccine and have chosen not to be immunized. The Student Health Service strongly recommends that students living in other group housing, such as sorority or fraternity houses or Naismith Hall, receive the vaccination. All other students are encouraged to consider vaccination. All students should become knowledgeable about meningitis and its symptoms.

Tuberculosis Screening Policy for International Students. All newly admitted and readmitted international students must have tuberculosis screening performed by Student Health Services at Watkins Memorial Health Center when they arrive on campus.

School of Pharmacy. See the School of Pharmacy chapter of this catalog for immunization requirements for pharmacy students.

KU Medical Center. The Student Health Center requires completion of childhood immunizations (DPT and Polio series), tetanus booster within the last 10 years, and documentation of Hepatitis B series and MMR vaccinations. Students who have not had chicken pox must take the Varicella immunization. Students who cannot provide documentation of MMR or Hepatitis B may obtain titers at the Student Health Center for a fee. Upon entering KUMC, all students must provide documentation of two TB skin tests (PPD) administered and interpreted within 12 months before enrollment. The most recent PPD test should be within three months before enrollment. Students who cannot provide evidence of two PPD tests must take consecutive PPD tests within one to three weeks of each other. All KUMC students must receive an annual TB skin test as recommended by the Centers for Disease Control for all health care employees. Any student with a positive TB skin test must meet with a student health provider to discuss KUMC protocol. For more information, see www.kumc.edu/studentcenter/health.

Academic Advising

KU values academic advising for all undergraduates as part of a student's educational experience. Academic advising is a developmental process of exploring life, educational, and career goals; selecting an educational program and courses; and scheduling classes. Academic advising is a multifaceted process, a responsibility shared by the student, the adviser, and KU. Advising concerns students' intellectual goals including course and major selection, enrollment, and career planning. Academic advising and enrollment are seldom separable.

Adviser Responsibilities. Listen to the student's comments and questions. From the start, ask questions that direct the student's thinking toward the future, to form an academic plan and start thinking concretely about a career.

- Share knowledge of KU, College, school, and departmental policies, procedures, and requirements.

- Assist the student with development of an academic plan leading to articulated career goals and regularly monitor progress toward achieving those goals. The plan should be consistent with the student's abilities and interests.
- Develop and maintain knowledge of currently available online and campus resources for undergraduates. Make referrals when the student's needs are beyond the scope of the adviser's expertise.
- Provide career-related information and links to other professional organizations, resources, and opportunities.
- Keep an up-to-date, confidential file on each student, with notes from each consultation, so that there is continuity in the advising process and each appointment covers new ground.
- Assist students with periodic evaluations of progress toward goals.
- Provide support, encouragement, and suggestions.

Student Responsibilities

- Clarify your personal values, interests, and goals. Identify short- and long-term academic, career, and life goals. Use this knowledge to create an academic and life plan.
- Plan ahead. Familiarize yourself with KU policies, procedures, deadlines, resources, and opportunities in the *Undergraduate Catalog*, *KU Undergraduate Student Handbook*, and online.
- Meet regularly with your adviser. Prepare thoroughly for appointments. Using the ARTS form, develop a proposed two- to four-semester schedule of courses for general education and major requirements and for electives. Prepare questions to ask and concerns to discuss. Complete forms for the adviser to sign. Bring plan, forms, the *Undergraduate Catalog*, and most recent ARTS form to the appointment.
- Monitor progress toward educational and career goals.
- Listen to your adviser's suggestions carefully, take notes, ask for clarification if you don't understand, follow up, and act on the suggestions.
- Take advantage of resources and opportunities both on and off campus. Actively seek out career opportunities related to your major.

The Freshman-Sophomore Advising Center, (785) 864-2834, offers comprehensive advising services for first- and second-year and prelaw students in the College. Advisers are assigned based on the student's area of interest. Students in freshman-entry schools are advised in their schools. Regular contact between degree-seeking students and faculty advisers is required.

New Student Orientation, (785) 864-4270, offers orientation and enrollment programs for new and readmitted students.

College Student Academic Services, (785) 864-3500, offers advising for new or undeclared juniors and seniors, readmitted students, premedical professions students, and any College student with questions or concerns about requirements, policies, or procedures. The office provides ARTS forms to students on demand as well as information on courses and enrollment. Faculty and full-time advisers are available for students at all levels in the College departments.

Deans' offices provide direct advising or help answer questions and make referrals to appropriate advisers.

Student Academic Concerns

A student who has difficulties with a course, a complaint, or a grievance about a particular instructor is urged to discuss the problem in a timely fashion with the instructor. If the student feels awkward or uncomfortable doing this, he or she should see the chair of the instructor's department, or if necessary, the dean's office. The chair or dean brings the matter to the instructor's attention, preserving the student's anonymity, if so requested. The **University Ombuds Office**, (785) 864-7261, www.ku.edu/~ombuds, and the **Academic Achievement and Access Center**, (785) 864-4064, www.achievement.ku.edu, also offer confidential assistance with academic concerns.

Enrollment

See the *Timetable of Classes*, www.timetable.ku.edu, each semester for complete enrollment information.

New and Readmitted Student Enrollment

Immediately before the beginning of classes each term, an enrollment session is scheduled for new students. New students admitted for summer or fall term have an additional option of enrolling in fall courses during one of several summer orientation sessions. Invitations to orientation are sent automatically to newly admitted and readmitted students who applied for the spring, summer, or fall terms (except nondegree-seeking students). Readmitted students may attend a special half-day orientation session, may enroll during continuing enrollment (see below), or may attend the enrollment sessions immediately before the start of the semester. Readmitted students whose readmission applications are completed by a designated date also may enroll during continuing enrollment, after meeting with an adviser. All students must preregister for orientation and enrollment sessions.

Continuing Enrollment

This enrollment allows students who are currently enrolled during one term to enroll for the next term. Spring-enrolled students enroll in April for the following summer session or fall semester or both. Fall-enrolled students enroll in October or November for the following spring semester.

Late Enrollment

Each semester, the *Timetable of Classes* announces dates for late enrollment and the last day to submit a Petition to Late Enroll. For most classes, the faculty have established earlier dates for beginning class attendance and participation. These dates are announced in the *Timetable*, www.timetable.ku.edu. A fee is assessed for late enrollment.

Checklists for Students

What First-year Students Should Do

Read the handbook, "Graduate in Four," on the Freshman-Sophomore Advising Center's Web site, www.advising.ku.edu. Before seeing an adviser, work out a tentative schedule of the classes you want to take. FSAC has enrollment worksheets available. Before filling out the worksheet, complete the following steps.

- Determine which school has admitted you. This information appears in your KU admissions letter. See the online status check at www.admissions.ku.edu for information or call the Office of Admissions and Scholarships at (785) 864-3911.
- Turn to the Directory of Undergraduate Majors and Subfields on pages 3 and 4 of this catalog to determine which degree you are pursuing and which school or college offers it.
- Consult the department or program section describing the major field that interests you. This section lists some suggested or required courses for first-year students. If you have been admitted to the College of Liberal Arts and Sciences and plan to enter one of the professional schools (allied health, business, education, journalism,

The Directory of Undergraduate Majors and Subfields is on pp. 3-4.

The Timetable is online at www.timetable.ku.edu.

For current tuition and fee rates, see www.registrar.ku.edu/fees.

Undergraduates in all schools except the College of Liberal Arts and Sciences can apply to graduate online. Sign on to <https://sa.ku.edu> and navigate to "Apply for Graduation." AFD forms for College students are available in 109 Strong Hall.

nursing, pharmacy, or social welfare) later, be sure to read the general requirements of the College as well as the chapter on the school you plan to enter.

- Consult an adviser in the Freshman-Sophomore Advising Center or in the school you are interested in entering. If you attend summer, fall, or spring orientation, advising sessions are part of your orientation day.
- If you are uncertain of the degree you wish to pursue in the College of Liberal Arts and Sciences, the best option for your first enrollment is the Bachelor of Arts, because it ensures a broad academic foundation on which later specialization may be based. If you are unsure of a degree in the Schools of Architecture and Urban Design, Engineering, or Fine Arts, consult the school.
- To determine placement or exemption in English, foreign language, mathematics, and oral communication, see the College of Liberal Arts and Sciences: General Requirements chapter of this catalog.
- Taking into consideration degree requirements and preparatory courses in your major, fill out a tentative enrollment schedule, including alternate course choices.
- Take this catalog and your tentative enrollment schedule to the first meeting with your adviser. Your adviser can help you most effectively if you follow these guidelines. Feel free to make an appointment with your adviser any time during the semester.
- If you plan to enter social work, apply to the School of Social Welfare at the beginning of the second semester of your first year. Fill out a Change of School form in the B.S.W. office, 107 Twente Hall.
- If you are not a native speaker of English, contact the Applied English Center, 204 Lippincott Hall, (785) 864-4606, for information about required English language screening.
- Enroll and pay fees.

What Sophomores Should Do

- Review the checklist for first-year students.
- Make sure that you will satisfy prerequisites or first- and second-year requirements for your intended major by the end of your sophomore year. Most department offices have complete lists of current required courses for their majors.
- If you intend to major in one of the professional schools (allied health, business, education, journalism, nursing, pharmacy, or social welfare), fill out a Change of School form at the beginning of the second semester of your sophomore year if you have not already done so. Some schools have earlier deadlines. See the Admission Options charts.

If you plan to major in a department in the College, complete a major declaration form at your intended department in the second semester of your sophomore year. CLAS requires every student to declare a major or be admitted to a professional school no later than the semester after completion of 60 credit hours. Failure to declare a major by this time results in a hold, requiring the student to consult with an adviser before enrolling. The hold will continue until the student has declared a major. For a major to be officially declared, CLAS Student Academic Services must receive a copy of the Major

Declaration Form signed by the student and the major department representative. Some CLAS departments have competitive admission to their majors and require completion of admission criteria and applications in addition to the major declaration form.

Students planning to enter the School of Business should see that valid ACT scores are on file and apply by September 15 for spring and February 15 for summer or fall admission.

Students who plan to enter teacher education programs in the School of Education should take the Pre-Professional Skills Test during spring semester of the first year or fall of the sophomore year and submit all application materials by February 1 of the sophomore year.

Students who intend to apply to the School of Nursing should obtain and submit an application before the October 15 deadline.

Students planning to major in social work should initiate a Change of School as second-semester first-year students or first-semester sophomores.

- Consult an adviser in the Freshman-Sophomore Advising Center or in your major area.
- Enroll and pay fees.

What Juniors Should Do

- Unless you are in a four-year professional curriculum, you must officially declare your major no later than the second semester of your junior year.
- If your major is in the College, complete a major declaration form at your major department if you have not already done so. Some departments have competitive admission to their majors and require completion of admission criteria and application materials. Check the departmental sections of this catalog.
- If you intend to major in one of the professional schools (allied health, business, education, journalism, nursing, pharmacy, or social welfare), fill out a Change of School form in the dean's office if you have not already done so. You must meet prerequisites and deadlines. Most department offices have complete lists of current required courses for their majors. Consult your adviser.
- Consult major requirements for your program before filling out a tentative semester schedule.
- Consult an adviser in your major area.
- Enroll and pay fees.

What Seniors Should Do

- File an Application for Degree by the deadline set by the College or your school.
- Make sure all requirements for your degree and your major will be fulfilled by the end of your senior year. Learn your school's procedures and deadlines for degree audits and checks.
- Visit www.commencement.ku.edu for information about commencement activities. KU Info posts a list of frequently asked questions about commencement on its Web site, www.kuinfo.ku.edu.
- Check with the University Career Center or your school's career center, or apply for admission to a graduate program.
- Enroll and pay fees.

KU students can access course information through Enroll & Pay, <https://sa.ku.edu>.

A complete Table of Contents page for each chapter of this catalog appears on the right-hand page before the chapter begins.

KU Info, (785) 864-3506, www.kuinfo.ku.edu, answers questions about campus events and activities, KU services and facilities, and academic policies and procedures.

Tuition and Fees

For current information about tuition and fees, see www.registrar.ku.edu/fees. Rates are subject to change at any time by the Kansas Board of Regents. Tuition and fees are assessed by the Office of the University Registrar on the Lawrence and Edwards campuses and the Office of the Registrar at the Medical Center in Kansas City.

Rates vary depending on locations and programs. Additional fees may be added. A full description of tuition and fees is available each semester in the *Timetable of Classes*, www.timetable.ku.edu. See www.registrar.ku.edu/fees for current rates.

Undergraduates who enroll in graduate-level courses (numbered 700 through 999) pay tuition at the graduate rate. Graduate students who enroll in undergraduate-level courses (numbered 000 through 499) pay tuition at the undergraduate rate.

Late Enrollment Fee

Each student who enrolls late is assessed an additional fee. Fees and applicable dates are announced in the *Timetable*, www.timetable.ku.edu, each term.

Residency Requirements

Kansas statutes and Kansas Board of Regents regulations govern who qualifies for resident tuition. This description does not replace or supersede the Kansas statutes or Regents' regulations. For a copy of the statutes and regulations or for answers to questions, contact the Office of the University Registrar, e-mail: kuregistrar@ku.edu, Web site: www.registrar.ku.edu.

Kansas determines in-state resident status for fee purposes based on (1) continuous physical residence in Kansas, (2) reliance on Kansas sources of support to meet living expenses, and (3) demonstrated intent to make Kansas your permanent home indefinitely. You must meet these criteria for 365 days before the first day of the semester in which you apply to pay resident rates. If you come to Kansas, enroll, and remain continuously enrolled, you must override the presumption that you came to Kansas for educational purposes. If you are a minor, your parents must meet these criteria. Call (785) 864-4472 for information and applications.

Those who meet the following criteria are also eligible to pay an amount equal to resident rates:

- Alumni or students of Haskell Indian Nations University.
- Kansas high school graduates who enroll at a Board of Regents institution within six months of high school graduation, who were residents for tuition and fee purposes at some point in the 12 months before graduation, and who remain continuously enrolled at a Regents institution.
- Employees of Kansas Board of Regents institutions who are employed 40-percent time and are not seasonal, hourly, or temporary. Dependents are also eligible if the employee holds a 100 percent appointment. Employees of university-affiliated corporations are not eligible for staff and staff-dependent rates.
- Employees who are transferred or recruited to Kansas and their dependents. This privilege is valid for one year.
- Members of the military currently stationed in Kansas on active duty and their spouses and dependent children.
- Members of the military stationed in Kansas on active duty for at least two years, who at retirement or honorable discharge stayed in Kansas.

Note: Generally, international students in nonimmigrant student status do not meet any of the criteria above. See the residency requirements on the University Registrar's Web site at www.registrar.ku.edu/residency, or contact ISSS, 2 Strong Hall, (785) 864-3617.

Reciprocal Agreements

By joint agreement of the Kansas Board of Regents and the Board of Curators of the University of Missouri, qualified students who would be eligible to pay resident tuition at the University of Missouri may enroll in the B.S. in architectural engineering and M.Arch. in architecture programs at the University of Kansas at the Kansas resident rate. Eligibility requirements include actively pursuing a degree and enrolling in required courses unique to the major. Agreements are subject to change.

A reciprocal agreement between KU Medical Center and the University of Missouri–Kansas City allows students to enroll at resident rates at the host institution. Contact the KUMC Office of the Registrar for eligibility requirements.

A reciprocal agreement between Kansas and Iowa allows a small number of Iowa students to enroll at resident rates in KU's School of Allied Health. A small number of Kansas students may pursue studies in actuarial science in Iowa at resident rates.

Financial Aid

Financial Aid—Lawrence

The KU Office of Student Financial Aid, (785) 864-4700, www.financialaid.ku.edu, annually provides more than \$150 million to KU students in loans, grants, scholarships, and Federal Work Study. Fifty-five percent of KU students receive financial assistance each year. Not all students qualify for need-based federal aid, but many KU students qualify for some type of assistance, as long as they meet other eligibility standards.

To qualify for most financial aid, federal law requires that you be a degree-seeking student and maintain satisfactory academic progress. Nondegree-seeking students should contact the Office of Student Financial Aid for exceptions. Federal programs require you to be a U.S. citizen or permanent resident. In addition, you must not be in default on an educational loan or owe a federal grant.

Assistance includes grants (Federal Pell Grant, Federal SEOG, Kansas Comprehensive Grant, KU Tuition Grant, and other university-funded grants), need-based loans (Federal Subsidized, Federal Perkins, Health Professions Student Loans), Federal Work Study, and scholarships. Scholarships are awarded on the basis of financial eligibility, superior academic record, or a combination of financial eligibility and academic ability. Other assistance, such as Federal Unsubsidized loans and Federal PLUS loan (for parents of dependent students), is available regardless of financial need. See the Financial Aid Programs at a Glance chart.

When you file the Free Application for Federal Student Aid (FAFSA) and indicate that a report should be sent to KU, the Office of Student Financial Aid evaluates your eligibility. You should indicate your interest in loans and Federal Work Study on the FAFSA if you want to be considered for these programs. Eligibility for specific programs is determined on the basis of your financial aid application and the availability of funds.

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Financial Aid Programs at a Glance

Apply by March 1 for priority consideration for these awards. Award ranges and terms are subject to change by Congress.

Name	Terms	Available to	Minimum enrollment	How to apply
Federal Pell Grant	no repayment	undergraduates working on a first degree	award varies according to enrollment	File the Free Application for Federal Student Aid (FAFSA)
Federal Supplemental Educational Opportunity Grant	no repayment	undergraduates working on a first degree; limited funding	6 credit hours	File FAFSA
Bureau of Indian Affairs Tribal Grant	no repayment	undergraduates & graduates; limited funding	12 credit hours	File FAFSA & a need-analysis form available from tribe
Kansas Comprehensive Grant	no repayment	Kansas resident undergraduates working on a first degree; limited funding	12 credit hours	File FAFSA
KU Tuition Grant	no repayment	undergraduates & graduates; limited funding	6 credit hours	File FAFSA
KU Edwards Campus Tuition Grant	no repayment	degree-seeking undergraduates & graduates in Edwards Campus degree progs.; limited funding	6 credit hours at Edwards Campus	File FAFSA
State of Kansas Scholarship	no repayment	Kansas resident undergraduates working on a first degree, designated state scholars; limited funding	12 credit hours	File FAFSA & Kansas Student Aid Application; pay appropriate fee
Kansas Ethnic Minority Scholarship	no repayment	Kansas resident undergraduate minority students working on a first degree; limited funding	12 credit hours	File FAFSA & Kansas Student Aid Application; pay appropriate fee
Kansas Teacher Scholarship	must teach in Kansas one year for each year of scholarship assistance received	Kansas resident undergraduates & graduates seeking initial teacher certification	12 credit hours	File FAFSA & Kansas Student Aid Application; pay appropriate fee
Federal Direct Student Loan (subsidized & unsubsidized)	repayment begins 6 months after leaving school	undergraduates & graduates	6 credit hours; if enrollment drops below 6 hours, repayment schedule begins	File FAFSA
Federal Perkins Student Loan	no interest until repayment begins 9 months after leaving school, then 5% interest	undergraduates & graduates; limited funding	6 credit hours; if enrollment drops below 6 hours, repayment schedule begins	File FAFSA
Federal Health Professions Student Loan (HPSL)/Federal Loan for Disadvantaged Students (LDS)	no interest until 1 year after leaving school, then 5% interest	pharmacy students only; limited funding	6 credit hours	File FAFSA, answer yes to indicate interest in loans. Parents' financial information required of all applicants
Federal Work-Study	work at an hourly rate up to 30 hours a week at a job on campus; community service positions available	undergraduates & graduates; limited funding	6 credit hours	File FAFSA, answer yes to indicate interest in student employment
Federal Direct Parent Loan for Undergraduates (PLUS)	repayment begins within 60 days after final disbursement	parents of dependent students	6 credit hours	File FAFSA; file PLUS application available from KU Office of Student Financial Aid
KU Endowment Loans	4.5% interest; repayment begins 4 months after leaving KU	undergraduates, graduates & international students	6 credit hours	Applications online at www.kuendowment.org

**The University of Kansas
Office of Admissions & Scholarships**
KU Visitor Center, 1502 Iowa St.
Lawrence, KS 66045-7576
(785) 864-3911
adm@ku.edu
www.admissions.ku.edu

(Lawrence & Edwards Campus students)
**The University of Kansas
Office of Student Financial Aid**
1450 Jayhawk Blvd., Room 50
Lawrence, KS 66045-7535
(785) 864-4700
financialaid@ku.edu
www.financialaid.ku.edu

(KU Medical Center students)
Office of Student Financial Aid
The University of Kansas Medical Center
4003 Student Center, Mail Stop 4005
3901 Rainbow Blvd.
Kansas City, KS 66160
(913) 588-5170
financialaid@kumc.edu
www.kumc.edu/studentcenter/financialaid

KU Endowment Association
1891 Constant Ave.
Lawrence, KS 66047-3743
(785) 832-7400
www.kuendowment.org

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To apply for financial aid to attend KU's Lawrence campus, follow these steps:

1. Apply for admission to KU. Your application for aid will not be processed until you have been admitted.
2. File the Free Application for Federal Student Aid (FAFSA). Indicate KU as a school of choice. KU's federal school code is 001948. The Department of Education recommends that you file online at www.fafsa.ed.gov, but a paper application is acceptable. You should apply before March 1 to receive priority consideration for all types of aid. Some funds are available if you apply after March 1, as long as you meet all other eligibility requirements.

Federal Refund Policy. A separate refund policy applies to a student who receives federal financial aid (grants and loans) under Title IV and who fully withdraws from KU. This policy also applies to a parent who receives a loan under Title IV on behalf of such a student. Contact the Office of Student Financial Aid for details.

Optional Loans. KU Endowment Loans are available in modest amounts to continuing students who have completed one KU semester with a 2.0 or higher grade-point average and to first-semester first-year students who have 3.0 high school grade-point averages. New graduate students and transfer students with grade-point averages of 2.5 or higher are also eligible. You are not required to complete an application for federal financial aid to be eligible for this loan. However, a parent cosigner is required. Applications are available at www.kuendowment.org.

KU Edwards Campus. The Office of Student Financial Aid in Lawrence awards financial aid to degree-seeking students on the KU Edwards Campus. To apply, follow the steps above. Direct questions about eligibility to the Office of Student Financial Aid, Strong Hall, 1450 Jayhawk Blvd., Room 50, Lawrence, KS 66045-7535, (785) 864-4700, financialaid@ku.edu.

Receiving Outside Scholarships. Scholarship checks awarded to students by churches, schools, organizations, or corporations should be sent to the KU Office of Student Financial Aid, Strong Hall, 1450 Jayhawk Blvd., Room 50, Lawrence, KS 66045-7535. The check should include the student's social security number or KUID number.

Part-time Employment

The University Career Center, 110 Burge Union, maintains a job listing service. Job notices are posted on a bulletin board outside the center and online at www.ucc.ku.edu. The minimum wage at KU is \$6 per hour. The University of Kansas is an equal opportunity employer. On-campus student positions as well as off-campus jobs are available. Federal Work-Study positions are available to financially eligible students. Eligibility for FWS awards is calculated based on the FAFSA. Community service positions are available for FWS students working in departments that serve the community. Information about FWS is available in the Office of Student Financial Aid. The Kansas Career Work-Study program provides opportunities for Kansas residents to gain experience in off-campus jobs. The Youth Educational Services program allows students to work as tutors in public schools. For information on Kansas Career Work-Study or the YES program, contact the University Career Center.

Financial Aid—KU Medical Center

The Department of Student Financial Aid serves students who need financial assistance to attend KU Medical Center. Through this office, students satisfying eligibility, enrollment, and academic requirements receive loan, grant, and scholarship support. Applicants for financial assistance must complete and submit the Free Application for Federal Student Aid and the KUMC Student Data Form. The priority processing deadline is February 14. Completion of these forms allows consideration for campus-based programs, including Federal Perkins Loans, Federal Supplemental Educational Opportunity Grant, Federal Pell Grant, and other institutional loans and scholarships. For a copy of the KUMC Financial Aid Guide and any required applications, contact the Office of Student Financial Aid, KU Medical Center, 4003 Student Center, Mail Stop 4005, 3901 Rainbow Blvd., Kansas City, KS 66160, (913) 588-5170, financialaid@kumc.edu, www.kumc.edu/studentcenter/financialaid.

Part-time Employment. The Employment Section of the Personnel Department often has student positions available. Check with the Employment Office, 1052 Wescoe Pavilion, for current openings and to complete an employment application.

International Programs

The Office of International Programs, Strong Hall, 1450 Jayhawk Blvd., Room 300, Lawrence, KS 66045-7535, www.international.ku.edu, promotes student and faculty exchanges, helps bring international events to campus, and coordinates faculty and student applications for Fulbright, KU Graduate Direct Exchange, and other grants for study or research abroad. It works with KU's area studies centers and other academic units to create new international programs.

KU Language Across the Curriculum

Courses in the humanities, social sciences, and other disciplines are taught in Spanish, French, German, Russian, and other languages. See the Other Programs chapter of this catalog for further information.

Applied English Center

The Applied English Center offers English language courses for non-English-speaking students. These courses, ranging from elementary through advanced, are available to those admitted to the center as well as to KU students who need further English instruction before undertaking full-time study in their degree programs. A limited number of Applied English credits are counted toward graduation by some programs at KU. See also International Student Applicants and Students Whose First Language is Not English in this chapter of the catalog. See the Other Programs chapter for Applied English Center course descriptions.

Study Abroad

KU has promoted international exchange since the 1950s. A national leader in providing low-cost, high-quality study abroad programs, the Office of Study Abroad administers more than 100 programs in about 50 countries. The office is at 1410 Jayhawk Blvd, Lippincott Hall, Room 108, Lawrence KS 66045-7515, (785) 864-3742, osa@ku.edu, www.studyabroad.ku.edu.

KU ranks fourth among U.S. public research institutions in the proportion of its students who study abroad. A list appears in the Other Programs chapter of this catalog.

The Mount Oread Scholars program, Strong Hall, 1450 Jayhawk Blvd., Room 126, Lawrence, KS 66045-7535, (785) 864-2834, offers special opportunities, advising, and support to academically qualified first-year KU students.

Students in all areas are eligible for Undergraduate Research Awards.

Students are encouraged to study overseas to enrich their academic experience through cultural immersion, intensive language learning, disciplinary study, and participation in foreign educational systems. Courses are taught in more than 20 different languages, and many semester and academic year programs allow students with demonstrated language proficiency to choose from regular university course offerings at the overseas institution. Instructional offerings in English also abound and incorporate a variety of disciplines.

Programs vary in structure from exchanges and individually arranged programs to group programs led by KU faculty members. They vary in length from academic-year and semester programs, to summer and winter or spring break programs. Students earn resident KU credit while studying abroad and maintain progress toward an academic degree. Resident KU credit allows the flexibility of earning credit toward the major, studying abroad during the senior year, and using financial aid for overseas study.

The Office of Study Abroad strives to keep costs down while maintaining a high standard of academic and experiential quality. For instance, KU exchange agreements with universities in Costa Rica, United Kingdom, and Hong Kong, and with the International Student Exchange Program offer tuition, room, and board costs similar to those on the Lawrence campus.

Students who qualify for grants, loans, or scholarships through KU's Office of Student Financial Aid may apply these awards to study abroad programs. Scholarships are available from the Office of Study Abroad and from some departments. Information is available in the Office of Study Abroad. Application deadlines are March 1 for the following fall, academic year, or summer, and October 1 for the following spring. Early application is recommended.

Graduating seniors and graduate students are eligible to apply for KU's Graduate Direct Exchange fellowships offered by 10 partner universities in England, France, Germany, and Switzerland, as well as for Fulbright and other nationally competitive grants for graduate study and research abroad. The internal deadline for applications is mid-September in the year before the grant period. Interested students, including juniors, should begin the application process in the spring semester.

Information about Business Programs in Asolo, Italy, through the Consortium of Universities for International Business Studies in Italy is available from the School of Business, 1300 Sunnyside Ave., Lawrence KS 66045-7585, (785) 864-7576, www.business.ku.edu.

Undergraduate Research

Each year, the Undergraduate Research Award program provides support for independent research by almost 70 Lawrence campus undergraduates in all disciplines. Students compete to receive \$500 each during the academic year and at least \$1,500 for summer research projects. Selection is based on the merit of the proposed project, the student's academic record and ability to undertake the research, and faculty recommendation. All students are strongly encouraged to participate in undergraduate research. Apply for the academic-year competition in November and for the summer competition in March. Contact the University Honors Program, www.honors.ku.edu.

Student Services

Health Services

Lawrence. Student Health Services, Watkins Memorial Health Center, has full-time physicians and support personnel. Hours: 8 a.m. to 8 p.m. Monday—Friday; 8 a.m. to 4:30 p.m. Saturday, 12:30 to 4:30 p.m. Sunday. An optional health insurance plan is available. All international students must have health insurance.

KU Medical Center. All students must be covered by a health insurance plan while enrolled at KUMC. Student Health Services is in 1012 Student Center Building. Hours: 7 a.m. to 7 p.m. Monday, 8 a.m. to 4:30 p.m. Tuesday—Friday. Closed on all state holidays.

Housing

Lawrence. KU has seven residence halls and 11 scholarship halls. Learning Communities offer first-year KU students a living-learning community that helps them make the transition to college. Stouffer Place has apartments for married students and for students with children who live with the student parent on a permanent basis. Jayhawker Towers is an apartment complex for unmarried students. Off-campus nonuniversity housing is available.

KU Medical Center. Apartment complexes, private apartments, and houses are available within walking distance of the Medical Center.

Libraries

Lawrence. The University Libraries offer access to a wide range of electronic and printed resources in many subjects and formats. Electronic databases, journals, books, and other materials are available through the libraries' Web site, in addition to KU's online catalog of library holdings. Materials not owned by KU can be obtained through interlibrary loan, often as electronic files delivered to the requestor's desktop. Study areas are available in all libraries, and users have access to many computer workstations with Internet access and standard software for word processing, spreadsheets and databases, and multimedia applications. Library instructional programs give students tools to use resources and services effectively, and personalized research assistance is provided in each library. Tours are offered at the beginning of each semester. The libraries are open to all KU students. Hours vary among facilities, but the Anschutz and Spahr Libraries provide 24-hour access during fall and spring terms. Services to users with disabilities are available in all libraries. For general information, visit the libraries' Web site, www.lib.ku.edu.

Printed resources and research assistance in many disciplines are provided in a variety of library facilities:

- Watson Library houses most collections in the humanities and social sciences and library support operations.
- Anschutz Library houses KU's science, mathematics, maps, geography, business, economics, and government information collections.
- Spencer Research Library contains rare books, manuscripts, regional history collections, and the University Archives.
- Murphy Library of Art and Architecture supports these disciplines as well as art history.
- Spahr Engineering Library contains collections supporting engineering and computer science programs.

- Gorton Music and Dance Library supports these areas of the fine arts.
- The Wheat Law Library supports the law curriculum.

KU Medical Center. Dykes Library for Health Sciences has a comprehensive health science collection and provides access to a wide range of electronic resources. For information, visit www.library.kumc.edu. The Clendening History of Medicine Library contains materials on the history of medicine. Information is available at www.clendening.kumc.edu.

The Regents Center Library on the KU Edwards Campus provides access to many electronic resources, and instructional and research assistance in support of the curriculum of the KU Edwards Campus. Many computer workstations are available.

For general information about KU's libraries, call (785) 864-3956, or visit www.lib.ku.edu.

The Student Recreation Fitness Center has an indoor climbing wall, gymnasiums, martial arts center, racquetball/squash courts, walking track, and facilities for basketball, badminton, handball, football, soccer, and rugby.

KU ranked 12th among American public universities for number of first-year National Merit scholars enrolled in 2005.

Lawrence Services

Academic Offices. Deans' offices and department and program offices provide academic advising information and support to students. Addresses appear in each school's chapter of this catalog.

Academic Records and Enrollment

Student Records Center

Strong Hall, 1450 Jayhawk Blvd., Room 151
Lawrence, KS 66045-7535:

Enrollment, Transcripts, Tuition and Fee

Questions, (785) 864-4423

Residency, (785) 864-4472

Veterans' Services, (785) 864-4482

www.registrar.ku.edu

Admission

Office of Admissions and Scholarships
KU Visitor Center, 1502 Iowa St.
Lawrence, KS 66045-7576

adm@ku.edu, www.admissions.ku.edu

(785) 864-3911, fax: (785) 864-5017

Advising

Freshman-Sophomore Advising Center
Strong Hall, 1450 Jayhawk Blvd., Room 126
Lawrence, KS 66045-7535

advising@ku.edu, www.advising.ku.edu, (785) 864-2834

College Student Academic Services

Strong Hall, 1450 Jayhawk Blvd., Room 109
Lawrence, KS 66045-7535

clas109@ku.edu, www.clas.ku.edu/us, (785) 864-3500

College of Liberal Arts and Sciences departments
online: www.clas.ku.edu/us/departments.shtml

Deans' offices and department and program offices also provide academic advising information and support. Addresses appear in each school's chapter of the catalog.

Bookstores

KU Bookstore, Burge Union, Level 2
1601 Irving Hill Rd.

Lawrence, KS 66045-7557

www.jayhawks.com, (785) 864-5697

KU Bookstores, Kansas Union, Level 2
1301 Jayhawk Blvd.

Lawrence, KS 66045-7548

www.jayhawks.com, (785) 864-4640

Career Planning Services

School of Business Career Services
Summerfield Hall, 1300 Sunnyside Ave., Room 125
Lawrence, KS 66045-7585

www.business.ku.edu, (785) 864-5591

Engineering Career Center,
Eaton Hall, 1520 West 15th St., Room 1001
Lawrence, KS 66045-7621

www.engr.ku.edu/engr-car, (785) 864-3891

School of Fine Arts Career Services
Murphy Hall, 1530 Naismith Dr., Room 450
Lawrence, KS 66045-3102

<http://arts.ku.edu>, (785) 864-4466

School of Journalism and Mass Communications
Career Center

Stauffer-Flint Hall, 1435 Jayhawk Blvd., Room 210,
Lawrence, KS 66045-7575

www.journalism.ku.edu, (785) 864-7648

University Career Center

Burge Union, 1601 Irving Hill Rd., Room 110
Lawrence, KS 66045-7577

www.ucc.ku.edu, (785) 864-3624

Child Care

Hilltop Child Development Center

1605 Irving Hill Rd., Lawrence, KS 66045

www.hilltop.ku.edu, (785) 864-4940

Edna A. Hill Child Development Center, (785) 864-0502
(Space is limited, and both programs have waiting lists.)

Computer Resources

For information about labs and hours, see Computer
Labs and Resources: www.computerlabs.ku.edu/lablist

The Kyou portal gives Lawrence and Edwards
Campus students access to many online services
and resources at <https://students.ku.edu>.

Concerts and Recitals

Department of Music and Dance

<http://arts.ku.edu>, (785) 864-3436

Lied Center Box Office

www.lied.ku.edu, (785) 864-ARTS (2787)

Murphy Hall Box Office

www.kutheatre.com, (785) 864-3982

Student Union Activities

www.suaevents.com, (785) 864-7469

Continuing Education

Continuing Education, 1515 St. Andrews Dr.

Lawrence, KS 66047-1625

www.ContinuingEd.ku.edu, (785) 864-5823

Counseling, Personal

Academic Achievement and Access Center

Strong Hall, 1450 Jayhawk Blvd., Room 22

Lawrence, KS 66045-7535

www.achievement.ku.edu, (785) 864-4064

Counseling and Psychological Services

Watkins Memorial Health Center

1200 Schwegler Dr., Room 2100

Lawrence, KS 66045-7559

www.caps.ku.edu, (785) 864-2277

Emily Taylor Women's Resource Center

Kansas Union, 1301 Jayhawk Blvd., Room 400

Lawrence, KS 66045-7548

www.womensresourcecenter.ku.edu, (785) 864-3552

KU Info, 4th floor, Kansas Union,

www.kuinfo.ku.edu, walk-in and phone, (785) 864-3506

Office of Multicultural Affairs

Strong Hall, 1450 Jayhawk Blvd., Room 145

Lawrence, KS 66045-7535

www.oma.ku.edu, (785) 864-4351

Psychological Clinic
Fraser Hall, 1415 Jayhawk Blvd., Room 315
Lawrence, KS 66045-7556
www.ku.edu/~psyclinc, (785) 864-4121

English Proficiency

Applied English Center
Lippincott Hall, 1410 Jayhawk Blvd., Room 204
Lawrence, KS 66045-7515
www.aec.ku.edu, (785) 864-4606

Equal Opportunity

Department of Human Resources & Equal Opportunity
Carruth-O'Leary Hall, 1246 West Campus Rd., Room 101
Lawrence, KS 66045-7505
www.hreo.ku.edu, (785) 864-3686

Financial Aid

Office of Student Financial Aid
Strong Hall, 1450 Jayhawk Blvd., Room 50
Lawrence, KS 66045-7535
financialaid@ku.edu, www.financialaid.ku.edu
(785) 864-4700

Health Service

Student Health Services
Watkins Memorial Health Center
1200 Schwegler Dr.
Lawrence, KS 66045-7559
www.studenthealth.ku.edu, (785) 864-9500

Housing

Jayhawker Towers Apartments
1603 West 15th St.
Lawrence, KS 66044
(785) 864-8305 or (785) 864-4560
Stouffer Place, (785) 864-8305 or (785) 864-4560
Student Housing Department
Residence Halls and Scholarship Halls
Corbin Hall, 422 West 11th St.
Lawrence, KS 66045-3312
housing@ku.edu, www.housing.ku.edu, (785) 864-4560

Information and Referrals

Academic Achievement and Access Center
Strong Hall, 1450 Jayhawk Blvd., Room 22
Lawrence, KS 66045-7535
www.achievement.ku.edu, (785) 864-4064
KU Info, 4th floor, Kansas Union,
www.kuinfo.ku.edu, walk-in and phone, (785) 864-3506

International Students

Applied English Center
Lippincott Hall, 1410 Jayhawk Blvd., Room 204
Lawrence, KS 66045-7515
www.aec.ku.edu, (785) 864-4606
International Undergraduate Admissions
Strong Hall, 1450 Jayhawk Blvd., Room 17
Lawrence, KS 66045-7535
issapbs@ku.edu, www.ku.edu/~issfacts, (785) 864-2616
Office of International Student and Scholar Services
Strong Hall, 1450 Jayhawk Blvd., Room 2
Lawrence, KS 66045-7535
iss@ku.edu, www.ku.edu/~issfacts, (785) 864-3617

Language Laboratory

Ermal Garinger Academic Resource Center
Wescoe Hall, 1445 Jayhawk Blvd., Room 4070
Lawrence, KS 66045-7590
EGARC@ku.edu, www.ku.edu/~egarc, (785) 864-4759

Learning Communities

Strong Hall, 1450 Jayhawk Blvd, Room 36
Lawrence, Kansas 66045
www.tlc.ku.edu, (785) 864-0187

Legal Services

Legal Services for Students
Burge Union, 1601 Irving Hill Rd., Room 312
Lawrence, KS 66045-7557
legals@ku.edu, www.legalservices.ku.edu, (785) 864-5665

Libraries

Watson Library, 1425 Jayhawk Blvd.
Lawrence, KS 66045-7544
www.lib.ku.edu, (785) 864-3956

Multicultural Students

Office of Multicultural Affairs
Strong Hall, 1450 Jayhawk Blvd., Room 145
Lawrence, KS 66045-7535
www.oma.ku.edu, (785) 864-4351

Multicultural Resource Center
1530 Summerfield Hall Dr.

Lawrence, KS 66045-7607
www.mrc.ku.edu, (785) 864-4350

Nontraditional Students

Student Involvement and Leadership Center
Kansas Union, 1301 Jayhawk Blvd., Room 400
Lawrence, KS 66045-7548
www.ku.edu/~silc, (785) 864-4861

Orientation

New Student Orientation
Strong Hall, 1450 Jayhawk Blvd., Room 213
Lawrence, KS 66045-7535
orientation@ku.edu, www.orientation.ku.edu
(785) 864-4270

Recycling

Dept. of Environmental Stewardship
Varsity House, 1043 Indiana St.
Lawrence, KS 66044
www.ku.edu/~recycle, (785) 864-2855

Safety and Crime on Campus

The annual security report about KU safety policies, crime statistics, and campus resources is available online at www.ku.edu/safety or on paper by contacting the Office of the Vice Provost for Student Success, Strong Hall, 1450 Jayhawk Blvd., Room 133, Lawrence, KS 66045-7535, (785) 864-4060.

Scholarships

Office of Admissions and Scholarships
KU Visitor Center, 1502 Iowa St.
Lawrence, KS 66045-7576
adm@ku.edu, www.admissions.ku.edu
(785) 864-3911, fax: (785) 864-5017

Sexual Assault Prevention

Sexual Violence Education and Support Services
Emily Taylor Women's Resource Center
Kansas Union, 1301 Jayhawk Blvd., Room 400
Lawrence, KS 66045-7548
www.womensresourcecenter.ku.edu, (785) 864-3552

Speech-Language-Hearing Clinic

Schiefelbusch Speech-Language-Hearing Clinic
Haworth Hall, 1200 Sunnyside Ave., Room 2101
Lawrence, KS 66045-7534
www.lsi.ku.edu/splh/clinic.htm, (785) 864-4690

Visit KU Medical Center online at www.kumc.edu.

Kirmayer Fitness Center is for KUMC faculty, staff, students, alumni, and their sponsored guests. Regular hours are Monday to Thursday— 5 a.m. to 10 p.m. Friday— 5:30 a.m. to 8 p.m. Saturday— 8 a.m. to 6 p.m. Sunday— noon to 10 p.m.

Jayhawk fans in the Kansas City area can shop for KU merchandise and apparel at the KU bookstore on the Edwards Campus. The bookstore also stocks textbooks and supplies for students.

Student Activities, Organizations, Recreation

Jaybowl, Kansas Union Recreation Center
Kansas Union, 1301 Jayhawk Blvd.
Lawrence, KS 66045-7548
www.kuactivities.com, (785) 864-3545

KU Memorial Unions
www.jayhawks.com, (785) 864-4651

KU Recreation Services, Student Recreation Fitness Center
1740 Watkins Center Dr.
Lawrence, KS 66045-7507
www.recreation.ku.edu, (785) 864-3546

Student Involvement and Leadership Center
Kansas Union, 1301 Jayhawk Blvd., Room 400
Lawrence, KS 66045-7548
www.ku.edu/~silc, (785) 864-4861

Student Union Activities
Kansas Union, 1301 Jayhawk Blvd.
Lawrence, KS 66045-7548
www.suaevents.com, (785) 864-3477

Student Employment

University Career Center
Burge Union, 1601 Irving Hill Rd., Room 110
Lawrence, KS 66045-7557
www.ucc.ku.edu, (785) 864-3624

Student Success

Office of the Vice Provost for Student Success
Strong Hall, 1450 Jayhawk Blvd., Room 133
Lawrence, KS 66045-7535
www.vpss.ku.edu, (785) 864-4060, fax: (785) 864-5090

Students with Disabilities

Disability Resources
Strong Hall, 1450 Jayhawk Blvd., Room 22
Lawrence, KS 66045-7535
www.disability.ku.edu, (785) 864-2620 (Voice/TTD)

Study Abroad

Office of Study Abroad
Lippincott Hall, 1410 Jayhawk Blvd., Room 108
Lawrence, KS 66045-7515
www.studyabroad.ku.edu, (785) 864-3742

Testing

Counseling and Psychological Services, Testing Services
Watkins Memorial Health Center
1200 Schwegler Dr., Room 2150
Lawrence, KS 66045-7559
www.caps.ku.edu/testing, (785) 864-2768

Tutoring and Academic Assistance

Academic Achievement and Access Center
Strong Hall, 1450 Jayhawk Blvd., Room 22
Lawrence, KS 66045-7535
www.achievement.ku.edu, (785) 864-4064
College Student Academic Services
Strong Hall, 1450 Jayhawk Blvd., Room 109
Lawrence, KS 66045-7535
clas109@ku.edu, www.clas.ku.edu/us, (785) 864-3500

Freshman-Sophomore Advising Center
Strong Hall, 1450 Jayhawk Blvd., Room 126
Lawrence, KS 66045-7535
advising@ku.edu, www.advising.ku.edu, (785) 864-2834

Student Support Services Program
Strong Hall, 1450 Jayhawk Blvd., Room 7
Lawrence, KS 66045-7535
www.clas.ku.edu/services/ses, (785) 864-3971

Watson Library, 1425 Jayhawk Blvd.
Lawrence, KS 66045-7544
www.lib.ku.edu, (785) 864-3956

University Ombuds Office

Carruth-O'Leary Hall, 1246 West Campus Rd., Room 28
Lawrence, KS 66045-7615
www.ku.edu/~ombuds, (785) 864-7261

Women's Resources

Emily Taylor Women's Resource Center
Kansas Union, 1301 Jayhawk Blvd., Room 400
Lawrence, KS 66045-7548
www.womensresourcecenter.ku.edu, (785) 864-3552

Writing Center

KU Writing Center
Wescoe Hall, 1445 Jayhawk Blvd., Room 4017
Lawrence, KS 66045-7590
www.writing.ku.edu, (785) 864-2399

KU Medical Center Services

Academic Offices. Deans' offices provide academic information and support to students. Addresses appear in each school's chapter of this catalog.

Admission

Contact the specific school or department.

Bookstore

KU Medical Center Bookstore
G014 Orr-Major, Mail Stop 4036
3901 Rainbow Blvd., Kansas City, KS 66160
bookstore@kumc.edu, www.kumedbooks.com
(913) 588-2537 or (800) 262-7509

Computer Resources

Archie R. Dykes Library for Health Sciences
KU Medical Center, Mail Stop 1050
2100 West 39th St., Kansas City, KS 66160
www.library.kumc.edu, (913) 588-7166

Telecom Help, (913) 588-7995

The myKUMC student portal gives KU Medical Center students access to online resources. Visit <https://my.kumc.edu>.

Counseling, Personal

Student Counseling Services, KU Medical Center
G116 Student Center, Mail Stop 4006
3901 Rainbow Blvd., Kansas City, KS 66160
www.kumc.edu/studentcenter/counsel
(913) 588-6580, Crisis after-hours: (913) 917-6283

Educational Support Services

Learning Specialists, KU Medical Center
G116 Student Center, Mail Stop 4006
3901 Rainbow Blvd., Kansas City, KS 66160
www.kumc.edu/studentcenter/counsel, (913) 588-6580

Equal Opportunity

Equal Opportunity Office, KU Medical Center
1054 Wescoe Pavilion, Mail Stop 2014
3901 Rainbow Blvd., Kansas City, KS 66160
www.kumc.edu/eoo
(913) 588-1206 (voice), (913) 588-7963 (TDD)

Financial Aid

Office of Student Financial Aid, KU Medical Center
4003 Student Center, Mail Stop 4005
3901 Rainbow Blvd., Kansas City, KS 66160
financialaid@kumc.edu, www.kumc.edu/studentcenter/financialaid, (913) 588-5170

Health Service

Student Health Center, KU Medical Center
1012 Student Center, Mail Stop 4044
3901 Rainbow Blvd., Kansas City, KS 66160
www.kumc.edu/studentcenter/health, (913) 588-1941

Housing

Housing Office, KU Medical Center
G116 Student Center, Mail Stop 4006
3901 Rainbow Blvd., Kansas City, KS 66160
housinginfo@kumc.edu, www2.kumc.edu/classifieds/housingads, (913) 588-4695

Libraries

Archie R. Dykes Library for Health Sciences
KU Medical Center, Mail Stop 1050
2100 West 39th St., Kansas City, KS 66160
www.library.kumc.edu, (913) 588-7166

Clendening History of Medicine Library
KU Medical Center, 1020E Robinson, Mail Stop 1025
3901 Rainbow Blvd., Kansas City, KS 66160
www.clendening.kumc.edu, (913) 588-7244

Registrar

(Student Records, Loan Deferments, Registration,
Tuition and Fee Payment, Veterans' Benefits)
Office of the Registrar, KU Medical Center
3001 Student Center, Mail Stop 4029
3901 Rainbow Blvd., Kansas City, KS 66160
www.kumc.edu/studentcenter/registrar, (913) 588-7055

Student Activities, Organizations, Recreation

Kirmayer Fitness Center
KU Medical Center, Mail Stop 1007
3901 Rainbow Blvd., Kansas City, KS 66160
www.kumc.edu/kirmayer, (913) 588-1532

Student Resources, Wellness, and Diversity
KU Medical Center, 3001 Student Center, Mail Stop 4029
3901 Rainbow Blvd., Kansas City, KS 66160
www.kumc.edu/studentcenter/srwd, (913) 588-6681

Student Union Corporation, KU Medical Center
G014 Orr-Major Bldg., Mail Stop 4036
3901 Rainbow Blvd., Kansas City, KS 66160
www.kumedbooks.com, (913) 588-2537 or (800) 262-7509

Student Employment

Employment Office, KU Medical Center
1052 Wescoe Pavilion, Mail Stop 2033
3901 Rainbow Blvd., Kansas City, KS 66160
www2.kumc.edu/hr, (913) 588-5086

Student Health Insurance

Student Health Insurance, KU Medical Center
G116 Student Center, Mail Stop 4006
3901 Rainbow Blvd., Kansas City, KS 66160
shinsurance@kumc.edu, www.kumc.edu/studentcenter/healthinsure, (913) 588-4695, fax: (913) 588-6597

Student Services

Student Services Division, KU Medical Center
3001 Student Center, Mail Stop 4029
3901 Rainbow Blvd., Kansas City, KS 66160
www.kumc.edu/studentcenter/dean, (913) 588-4698

KU Edwards Campus Services**The University of Kansas Edwards Campus**

12600 Quivira Rd.
Overland Park, KS 66213-2402
Phone: 864-8400 (from Lawrence) or (913) 897-8400.

Academic Offices

The professional schools and the College of Liberal Arts and Sciences from KU's Lawrence campus deliver academic information and support to students on the KU Edwards Campus. For questions, contact Mary Ryan, Associate Dean, Academic Affairs
KU Edwards Campus, 12600 Quivira Rd.
Overland Park, KS 66213-2402
mryan@ku.edu, <http://edwardscampus.ku.edu>
(913) 897-8400

Bookstore

KU Edwards Campus Bookstore
Jayhawk Central, 12520 Quivira Rd.
Overland Park, KS 66213-2402
www.jayhawks.com/edwards, (913) 897-8580

Computer Resources and Educational Technology

Technology Services
KU Edwards Campus, 12600 Quivira Rd.
Overland Park, KS 66213-2402
http://edwardscampus.ku.edu/Technology_Services/Technology_Services_Index.htm, (913) 897-8400

Library

Regents Center Library
KU Edwards Campus, 12600 Quivira Rd.
Overland Park, KS 66213-2402
reg_ref@ku.edu, www.lib.ku.edu/~rclibrary
(913) 897-8570

Student Success Center

KU Edwards Campus, 12600 Quivira Rd.
Overland Park, KS 66213-2402
<http://edwardscampus.ku.edu>
(913) 897-8461

General Regulations

Visit the University of Kansas Web site:
www.ku.edu

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Photo, page 36:
The Ermal Garinger
Academic Re-
source Center
provides students
with audiotapes,
videotapes, and
software that
accompany
language texts.
Students can
check out foreign-
language movies,
music CDs, cultural
programs, and
documentaries.

General Regulations

The rules and regulations of the University of Kansas pertaining to academic work are published in the University Senate Rules and Regulations, the Faculty Senate Rules and Regulations, and the University of Kansas Senate Code. Copies of these documents are on file with University Governance, Strong Hall, 1450 Jayhawk Blvd., Room 33, Lawrence, KS 66045-7535, (785) 864-5169, www.ku.edu/~unigov/docum.html. This chapter is intended as a guide to KU rules and regulations. Consult your dean's office for further information.

Absences

There is no system of permissible absences in any of the schools at KU. Students are expected to attend all meetings of their classes. However, students may be exempt from required class activities at times of mandated religious observances.

The Schools of Architecture and Urban Design, Education, Engineering, and Fine Arts stipulate that a student with excessive absences may be withdrawn from the course by the dean and assigned the grade of F.

School of Fine Arts. The school defines excessive absence as absence in excess of the number of credit hours in the course.

School of Journalism and Mass Communications. The school reserves the right to cancel the enrollment of any student who fails to attend the first class or laboratory meeting. Instructors may require a certain level of attendance for passing a course and may drop a student for lack of attendance without the student's consent.

Academic Advising

Academic advising is an important part of each student's KU experience. Many schools, the College, and departments and programs require students to meet with their academic advisers at least once a semester. See Academic Advising in the General Information chapter of this catalog. See Advising in each school's chapter of this catalog.

College of Liberal Arts and Sciences. All first- and second-year students must meet with their advisers each semester before enrolling for the following semester. Students who have not declared a major after 60 hours must meet with an adviser before enrolling. An advising hold is placed on the student's enrollment and removed only after the student meets with the adviser.

Academic Forgiveness

Academic forgiveness is the suspension of University Senate Rules and Regulations, Article 2.4.2.1, to discount the course work of past academic semesters.

Academic forgiveness is available once to undergraduates who meet these requirements:

1. Had a break of at least four years in attendance at KU.

2. Had earned an overall KU grade-point average of less than 2.0 before leaving KU.

3. At the time of petition, have earned a grade-point average of at least 2.5 in at least 12 credit hours earned after returning to KU. All grades earned at KU since returning are used to make this grade-point average calculation.

When invoking academic forgiveness, a student may designate not more than three academic terms to be discounted in his or her academic record. Only terms completed before returning to KU may be designated. Contact your dean's office for an application.

School of Nursing. Academic forgiveness does not apply.

Academic Integrity

Academic integrity is a central value in higher education. It rests on two principles: first, that academic work is represented truthfully as to its source and its accuracy; and second, that academic results are obtained by fair and authorized means. Academic misconduct occurs when either of these principles is violated.

Examples of student academic misconduct include giving or receiving unauthorized assistance on examinations or in the preparation of notebooks, themes, reports, or other assignments; knowingly misrepresenting the source of any academic work; changing grades without authorization; using university approvals without authorization; forging signatures; falsifying research results; plagiarizing another's work; violating regulations or ethical codes for the treatment of human and animal subjects, or otherwise acting dishonestly in research. Students who are found guilty of academic misconduct are subject to a range of disciplinary actions, including suspension or dismissal. Instructors also are expected to abide by the principles of academic integrity and may be sanctioned for academic misconduct.

Detailed information about academic misconduct and the sanctions that may be applied is available in the University Senate Rules and Regulations, Article 2, Section 6, available online at www.ku.edu/~unigov/usrr.html#art2sect6. It is the responsibility of each member of the university community to understand and adhere to principles of academic integrity.

Academic Transcripts

The academic transcript lists all courses attempted and completed and other academic information. Independent Study courses taken through Continuing Education are not calculated in the grade-point average that appears on the transcript. Some schools may calculate such grades in the grade-point average and use this average for graduation purposes.

Photo, page 38:
Professor Paul Lim (right) directs the dress rehearsal of the English Alternative Theatre's production of "Miss Julie."

You may order academic transcripts online, by mail, or in person. For online forms, go to www.registrar.ku.edu/forms. Call (785) 864-4423 (Lawrence) or (913) 588-7055 (KUMC) for instructions and fees.

Lawrence students can order transcripts from the KU Student Records Center, Strong Hall, 1450 Jayhawk Blvd., Room 151, Lawrence, KS 66045-7535.

Current KU Medical Center students or alumni of KUMC programs order transcripts from the Office of the Registrar, KU Medical Center, 3013 Student Center, Mail Stop 4029, 3901 Rainbow Blvd., Kansas City, KS 66160, www.kumc.edu/studentcenter/regtranscript.html.

For detailed information about regulations, consult the dean's office of your school.

The University Senate Rules and Regulations, the Faculty Senate Rules and Regulations, and the University of Kansas Senate Code are online: www.ku.edu/~unigov/docum.html.

The Student Records Center is in Strong Hall, 1450 Jayhawk Blvd., Room 151, Lawrence, KS 66045-7535, (785) 864-4423.

Adding Courses/Changing Sections

Procedures and deadlines for adding a course or changing sections are outlined in the *Timetable of Classes*, www.timetable.ku.edu, each term. Adding courses late is disadvantageous to everyone involved.

Application for Degree

For spring semester graduation, students should file AFDs by the March 1 *priority date*; the *final spring AFD deadline* is April 15. The AFD deadline for summer graduation is July 15. December 1 is the AFD deadline for fall graduation. Individual schools may set earlier dates. You cannot graduate unless you have completed the AFD by the deadline. Undergraduates must have finished at least 90 hours of course work to apply for graduation. To change your AFD to a different semester, contact your school or college.

Undergraduates in all schools except the College of Liberal Arts and Sciences can apply to graduate online. Sign on to Enroll & Pay, <https://sa.ku.edu> and navigate to "Apply for Graduation." AFD forms for College students are available in 109 Strong Hall. If you have questions, contact the Student Records Center, 151 Strong Hall, (785)864-4423, kuregistrar@ku.edu.

Auditing a Course

Faculty Senate Rules and Regulations, Article V, Section 5.5.1-2, state, "The regulation of the auditing or visitation of classes shall be the responsibility of the faculties of the several KU schools. Such regulation shall provide for approval of the instructor of the class involved." No university credit is awarded. See Repetition of Courses.

Change of Grade

The policies and procedures for changing a recorded grade are described in Article II, Section 3 of the University Senate Rules and Regulations. The faculty member must request the change of grade in writing. The chair of the department offering the course must approve the request. Changes of grade are allowed only if the original grade resulted from an error or if the currently recorded grade is I or P. Article II, Section 3 also makes provisions for such exceptional cases as (1) specified situations involving sexual harassment; (2) faculty members who become seriously ill and incapacitated, who die, or who can no longer be contacted; (3) specified academic misconduct by the student or the faculty member; or (4) procedural irregularity. In these exceptional cases, the department chair appoints a committee of three faculty members to re-

view the student's course work and assign the grade. Consult College Student Academic Services or the dean's office of your school for more information.

Grade Appeals

A student may appeal a final course grade if he or she believes the grading procedure announced by the instructor has been improperly applied. The appeal must be submitted according to procedures established by the department or school offering the course and should be directed first to the department. If these procedures fail to resolve the dispute, the student may submit a final appeal to the University Judicial Board. See the University Senate Rules and Regulations, Article II, Sections 2.3.3 and 2.6.4.

Change of School

To change from one school to another, you must submit a Change of School form in the dean's office of the school you plan to enter or in College Student Academic Services if you plan to enter the College. Follow the deadlines on the form. See the school's requirements for admission.

College of Liberal Arts and Sciences. Students applying for admission to the College from other schools in the university must meet the same minimum grade-point average requirements in KU attempted course work as continuing College students. Consult College Student Academic Services, Strong Hall, 1450 Jayhawk Blvd., Room 109, Lawrence, KS 66045-7535, (785) 864-3500.

School of Business. Admission is competitive. Applications are due February 15 for fall or summer admission and September 15 for spring admission. See the Admission Options chart in the General Information chapter of this catalog for details.

School of Education. Students are admitted to teaching programs once a year; applications are due February 1. Students are admitted to athletic training once a year; applications are due May 1. Students are admitted to sport science and community health twice a year; applications are due February 1 for fall and September 15 for spring semester. Consult the School of Education Welcome Center, 208 J.R. Pearson Hall, (785) 864-3726, for information.

School of Engineering. Admission is competitive. Students must have minimum grade-point averages of 2.5 and proof of competency in calculus (grade of C or higher) or a minimum ACT math score of 22. Applications are reviewed throughout the year.

School of Fine Arts. Admission is competitive. Students must have minimum grade-point averages of 3.0 on a 4.0 scale from any college or university including KU. Music admission is contingent upon a successful audition. Change-of-school applicants must meet the same requirements as transfer applicants. See the Admission Options chart in the General Information chapter of this catalog for details.

School of Journalism and Mass Communications. Admission is competitive and occurs twice a year. Applications are due February 1 for fall and summer and September 1 for spring admission. Ninety percent of available openings are filled by applicants with the highest cumulative grade-point averages. The remaining 10 percent are selected from among applicants who petition by the deadline, provided they have overall grade-point averages of at least 2.5.

School of Nursing. Admission is competitive and occurs once each year, in fall semester. Applications are due by October 15 of the year before beginning classes.

School of Social Welfare. Applicants are reviewed for admission three times a year: October 1, February 1, and June 1. Additional information is available from the B.S.W. program office.

Classification of Students

Students are assigned to a particular class level on the basis of the following credit hour requirements:

- First-year—0-29 credit hours
- Sophomore—30-59 credit hours
- Junior—60-89 credit hours
- Senior—90 or more credit hours

The codes for class and school appear in the *Timetable of Classes*, online at www.timetable.ku.edu.

Code of Conduct

See www.vpss.ku.edu/rights.shtml, for the Code of Student Rights and Responsibilities. Complete official copies are available from the Office of the Vice Provost for Student Success, 133 Strong Hall on the Lawrence campus, and from the Student Services Division, 3001 Student Center on the KU Medical Center campus.

Course Numbering System

The course numbering system can be useful as a general guide to students in planning a course of study.

- 000-099 Noncredit courses or those credit courses for which records are kept but which do not count toward graduation.
- 100-299 Courses for first- and second-year students.
- 300-499 Courses for juniors and seniors.
- 500-699 Courses for juniors and seniors, also taken by some graduate students with fewer than 30 hours of graduate credit.
- 700-799 Courses for graduate students with fewer than 30 hours of graduate credit, also taken by some undergraduates.
- 800-899 Courses primarily for graduate students with fewer than 30 hours of graduate credit (not normally open to undergraduates).
- 900-999 Courses primarily for graduate students with more than 30 hours of graduate credit (not normally open to undergraduates).

Undergraduates who enroll in graduate courses (numbered 700 through 999) pay tuition on those courses at the graduate rate. See Graduate Enrollment.

Credit by Examination

KU offers its own program of examinations for advanced credit. Applications are available in the Student Records Center. They must be approved by the instructor and the chair of the department concerned and by the student's dean or dean's representative. A report of the examination taken, showing the hours of credit to be granted and the grade awarded, must be signed by the professor giving the examination, the chair, and the dean or dean's representative.

At the discretion of each academic dean, grades of A, B, C, or D may be used to indicate degrees of achievement, or a grade of Credit may indicate satisfactory performance. No record is made of an unsatisfactory attempt. Credit by Examination grades are not included in the grade-point average that appears on the official transcript.

A fee is charged for each course. For current fee information, contact the Student Records Center, 151 Strong Hall, (785) 864-4423, kuregistrar@ku.edu.

Warning: Some medical schools do not accept credit by examination.

Credit/No Credit

A Credit/No Credit option is available to all degree-seeking undergraduates. You may enroll in one course per semester under the option, if the course is not in your major or minor. To exercise the option, you must fill out a card at the dean's office of the school in which you are enrolled during the fifth and sixth weeks of the semester (or the third week of summer session and eight-week courses). See the *Timetable of Classes*, www.timetable.ku.edu, for current dates for electing this option. After the close of the option period, the choice cannot be changed. Under the option, a grade of Credit is recorded for grades of A, B, or C; No Credit is recorded for grades of D or F. Courses graded Credit or No Credit do not count in computing the grade-point average. Courses graded Credit are included in the total hours counted toward graduation. Courses graded No Credit do not count toward graduation. See the accompanying chart.

Warning: Certain undesirable consequences may result from exercising the option. Some schools, scholarship committees, and honorary societies do not accept this grading system and convert grades of No Credit to F when computing grade-point averages.

College of Liberal Arts and Sciences. Students must fill out a request in College Student Academic Services. The university-established timeline for exercising this option is strictly enforced.

School of Architecture and Urban Design. ARCH 690 and ARCH 691 can only be taken for Credit/No Credit.

School of Education. Students planning to enter education programs who are not formally admitted to the school are strongly discouraged from taking any course required for graduation for Credit/No Credit.

Credit/No Credit

School in which student is enrolled	Credit/no credit allowed for	Credit/no credit NOT allowed for
College of Liberal Arts & Sciences (CLAS)	Courses not in the major or minor	Courses in the major or minor
Architecture & Urban Design	ARCH 690 & ARCH 691; electives not in the major	Required courses (except ARCH 690 & 691); electives in the major
Business	Electives	Required professional (business & economics) courses, required English courses, PSYC 104
Education	Any course not required for graduation	Any course required for graduation
Engineering (incl. Architectural Engineering; not an option for Aerospace Engineering students)	Courses used to fulfill English, humanities, social science, or oral communication requirements only	All other courses
Fine Arts	Electives not in the major	Required courses; electives in the major
Journalism & Mass Communications	CLAS or miscellaneous electives, one course per semester	Journalism courses or admission requirements in English
Nursing	Courses not in the major	Courses in the major
Pharmacy	Electives not in the major	All other courses
Social Welfare	Courses not in the major	Courses in the major

The Office of the University Registrar is in Strong Hall, 1450 Jayhawk Blvd., Room 121, Lawrence, KS 66045-7535, (785) 864-4423, kuregistrar@ku.edu, or www.registrar.ku.edu.

The Office of the Registrar at the Medical Center is in 3001 Student Center Building, www.kumc.edu/studentcenter/registrar.

Each student is responsible for conforming with regulations in this catalog and any others that may be required.

Diplomas

Degrees are awarded three times a year to students who have completed applications for degree on time and have met all requirements as of the last day of final examinations for each of the three terms: fall semester, spring semester, and summer session.

A diploma normally is issued for each degree earned. Only one B.A. degree may be awarded to a student by a school or the College. Only one B.G.S. degree may be awarded to a student in the College. In the College, the combination of a B.A. degree and B.G.S. degree may only be awarded in rare situations. Almost all other combinations of two like or unlike degrees may be awarded if all degree requirements have been met. Normally, 30 credit hours of additional course work are required to earn a second bachelor's degree.

The diploma reflects only the honors earned at the time degree requirements were met.

Diplomas generally list those majors approved by the Board of Regents. Additional majors earned after a degree has been awarded are reflected on the transcript. On request of the graduate, a diploma-like document identifying the additional major may be issued.

You must present photo identification to pick up your diploma. Diplomas that have not been picked up after a year are discarded. See Academic Transcripts.

Dismissal

The College and schools set minimum academic grade standards that include academic dismissal. See Probation and Dismissal in this chapter of the catalog.

Unless he or she is formally readmitted, a student who is dismissed for poor scholarship is not eligible to continue to enroll at KU.

A student who has been dismissed may apply for readmission to his or her original school at KU. Contact the appropriate school for current information.

A student who has been dismissed from one school at KU may apply for admission to a different KU school. Minimum grade-point average requirements for admission and readmission vary. See also Undergraduate Admission and Scholarships in the General Information chapter of this catalog.

Applications for readmission are available in the KU Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045-7576, (785) 864-3911, adm@ku.edu, www.admissions.ku.edu.

Students may be dismissed for academic misconduct. See the Code of Student Rights and Responsibilities, online at www.vpss.ku.edu/rights.shtml.

Dropping a Course

See Withdrawal from a Course.

E-mail

KU routinely uses e-mail for official communication with students. Each student must register an e-mail account or use a KU-provided account while enrolled at KU. These addresses are used for university business and official communications to students, including enrollment information, grade reports, and financial statements. Students are expected to check their e-mail regularly for university communications. KU

encourages students to maintain separate e-mail accounts and addresses with an Internet Service Provider for personal communication, but students may use the KU account for incidental personal communication as long as it does not interfere with KU operations or generate incremental identifiable costs.

At their discretion, students may also routinely forward e-mail from the KU account to a personal account. They should keep in mind that KU e-mail is encrypted during storage and transmission and may be more secure than in another e-mail system.

KU e-mail may not be used for commercial purposes, for personal financial gain, to distribute chain mail, to support partisan political candidates or party fund raising, or to support outside organizations not otherwise authorized to use university facilities.

KU does not routinely monitor or screen e-mail. However, complete confidentiality or privacy of e-mail cannot be guaranteed. For further information, see the full electronic mail policy at www.provost.ku.edu.

KU accounts remain the property of the state of Kansas. KU routinely disables them 90 days after graduation or other severance from the university.

The Kyou portal gives Lawrence and Edwards Campus students up-to-date information and resources. The portal provides access to such academic services as course schedule, grades, enrollment, financial aid, library services, and more. See <https://students.ku.edu>.

The myKUMC student portal allows KU Medical Center students to check announcements, grades, schedules, and more. Visit <https://my.kumc.edu>.

Full-time Student Status

Undergraduates who wish to be certified as full-time students must be enrolled for a minimum of 12 credit hours each semester (6 hours in summer). Excluded are credit by examination, Independent Study courses, and academic work done to make up incomplete work for prior terms. See Maximum and Minimum Enrollment.

Grades and Grade-point Averages

The letters A, B, C, D, S (satisfactory), and Credit indicate passing work. The letters F and U (unsatisfactory) and No Credit indicate that the quality of work was such that, to obtain credit, the student must repeat regular course work. P represents satisfactory progress (an interim grade pending completion of a subsequent term's course work). See Credit/No Credit and Incompletes.

The following numerical values are used in calculating the grade-point average:

- A = 4 points
- B = 3 points
- C = 2 points
- D = 1 point
- F = 0 points

Grades of W (withdrawn), I, P, S, U, Credit, and No Credit are not figured in the grade-point average.

Although the formula for calculating grade-point averages is the same for all purposes, the course work included in the calculation may vary. The grade-point average that appears on the official transcript reflects only course work taken in residence at KU. This average excludes course work transferred from other institutions, Independent Study courses taken through Con-

tinuing Education, credits earned by examination, and courses taken as a nondegree-seeking student (unless the student successfully petitions for an exception).

The grade-point average for graduation and graduation with honors may include course work normally excluded from the grade-point average that appears on the official transcript. See the chart of KU Undergraduate Enrollment in Independent Study Courses.

To calculate a grade-point average, add the grade points earned and divide that total by the number of hours attempted and graded A, B, C, D, or F.

Course	Cr. Hrs.	Grade	Grade Points
BIOL 150	4 hours	x A (4)	= 16 grade points
MATH 101	3 hours	x B (3)	= 9 grade points
SPAN 104	5 hours	x C (2)	= 10 grade points
ENGL 101	3 hours	x D (1)	= 3 grade points
PSYC 104	3 hours	x F (0)	= 0 grade points

The total is 18 credit hours and 38 grade points; 38 divided by 18 = 2.11 grade-point average.

School of Allied Health. The Department of Respiratory Care recognizes only grades of A, B, or C as passing. Grades of D and F are not considered passing for the purpose of advancing in the curriculum.

School of Nursing. Courses in which grades of D and F are earned do not count toward graduation.

Courses Graded Plus (+) and Minus (-)

The Schools of Architecture and Urban Design, Business, Education, Fine Arts, Journalism and Mass Communications, and Social Welfare have approved the plus/minus grading system for courses they offer. All students taking courses from these schools may be graded by the plus/minus system regardless of the school to which they are admitted. The system assigns the following grade points:

A = 4.0	C = 2.0
A- = 3.7	C- = 1.7
B+ = 3.3	D+ = 1.3
B = 3.0	D = 1.0
B- = 2.7	D- = 0.7
C+ = 2.3	F = 0

Graduate Enrollment

Undergraduates must have written permission to enroll in graduate-level courses numbered 800 through 999. Undergraduates who enroll in graduate courses (numbered 700 through 999) pay tuition on those courses at the graduate rate.

Combined Graduate and Undergraduate Enrollment

KU seniors who will complete the requirements for a baccalaureate degree and have very strong academic records may request permission from the Graduate School to coenroll for the final semester. Seniors requesting the privilege of coenrollment must make formal application to the Graduate School. Seniors who wish to coenroll must meet all Graduate School requirements. Students may apply directly to the Graduate School online at www.graduate.ku.edu.

Undergraduate Student Enrollment in Upper-level Graduate Courses

Well-qualified undergraduate students may be permitted to enroll in 800- or 900-level courses for undergraduate credit with the approval of the instructor, the student's adviser, and the Graduate Division. The student

must bring a letter of explanation and recommendation from the adviser and a current academic record to the Graduate Division office for approval. Students in the College of Liberal and Arts and Sciences must obtain permission from the College Dean's office, 200 Strong Hall. To enroll in 800- or 900-level courses, undergraduates must obtain a special permission form.

Undergraduates who enroll in 800- or 900-level courses without the required approvals are dropped from those courses. Courses taken for undergraduate credit may not be transferred to graduate credit.

Graduation with Distinction and Highest Distinction

Schools award graduation with distinction or graduation with highest distinction. No more than the upper 10 percent of the graduating class may graduate with distinction. No more than 3 percent of the graduating class may graduate with highest distinction.

See also Honors Graduates, Honors Programs.

College of Liberal Arts and Sciences. Students must have completed at least 60 hours graded A through F in residence at KU (including the hours in which they are enrolled during the semester of graduation). Awards of distinction and highest distinction are based solely on the grade-point average determined by KU residence credit hours unless the overall grade-point average (including transfer hours) is lower than the residence grade-point average. In this case, the award is determined by the overall grade-point average. Students who rank in the upper 10 percent of their graduating class graduate with distinction. The upper third of those awarded distinction graduate with highest distinction.

School of Allied Health. Consult the office of the dean for details.

School of Architecture and Urban Design. Students who rank in the upper 10 percent of their graduating class graduate with distinction. The upper third of those awarded distinction graduate with highest distinction. The list is compiled each spring and includes July, December, and May graduates.

School of Business. Students whose KU professional grade-point averages rank in the upper 10 percent of their graduating class graduate with distinction. The upper 3 percent of those awarded distinction graduate with highest distinction.

School of Education. Students who rank in the upper 10 percent of their graduating class graduate with distinction. The upper third of those awarded distinction graduate with highest distinction. Grade-point averages are based on total credits (KU and transfer credit). To be considered for distinction, students must have completed a minimum of 75 hours at KU. The list is compiled each spring and includes July, December, and May graduates.

School of Engineering. Students who fulfill the following requirements are eligible for graduation with distinction.

1. Students must rank in the upper 10 percent of the graduating class by KU grade-point average.
2. Students must have taken at least 64 hours in residence at KU.
3. Students with transfer credit must also have overall grade-point averages, including transfer credit, that fall into the upper 10 percent of the class.

The upper third of those awarded distinction graduate with highest distinction. The list is compiled each spring and includes July, December, and May graduates.

School of Fine Arts. Students who rank in the upper 10 percent of their graduating class graduate with distinction. The upper third of those awarded distinction graduate with highest distinction. The list is compiled each spring and includes July, December, and May graduates.

School of Journalism and Mass Communications. Students who rank in the upper 10 percent of their graduating class graduate with distinction. The upper third of those awarded distinction graduate with highest distinction. In addition to a student's academic record, other factors may be considered.

School of Nursing. Students who rank in the upper 10 percent of their graduating class may graduate with distinction. The upper third of those awarded distinction may graduate with highest distinction. The list is compiled each spring and includes July, December, and May graduates.

School of Pharmacy. Students who rank in the upper 10 percent of their graduating class graduate with distinction. The upper third of those awarded distinction graduate with highest distinction. Grade-point averages are determined on the basis of credit hours taken while enrolled in the School of Pharmacy. The list is compiled each spring and includes July, December, and May graduates.

School of Social Welfare. Students who rank in the upper 10 percent of their graduating class graduate with distinction.

Honor Roll (Dean's List)

These schools recognize students on the honor roll or dean's list in fall and spring. An Honor Roll notation appears on the transcript.

School in which student is enrolled	Semester grade requirements	Semester enrollment and other requirements
Liberal Arts & Sciences	Grade-point average of 3.5	At least 12 hours completed with letter grades
Allied Health	Grade-point average of 3.5	At least 12 hours completed with letter grades
Architecture & Urban Design	Upper 10% of undergraduate student body in Architecture	At least 14 hours completed with letter grades
Business	Grade-point average of 3.5	At least 12 hours completed ¹
Education	Grade-point average of 3.75	At least 12 hours completed with letter grades
Engineering	Grade-point average of 3.75	At least 14 hours completed
Fine Arts	Grade-point average of 3.6	At least 12 hours completed with letter grades ²
Journalism & Mass Communications	Grades equivalent to upper 10% of undergraduate student body in Journalism	At least 12 hours completed with letter grades
Nursing	Grade-point average of 3.5	At least 12 hours completed
Pharmacy	Grade-point average of 3.5	At least 14 hours completed (12 hours during externship)
Social Welfare	Upper 20% of junior or senior class	At least 9 hours completed

¹Credit/no credit, activity, and remedial/developmental courses are counted as part of the 12 hours but not computed in the required GPA.

²Credit/no credit grades are not accepted. S grades are accepted.

For a catalog of Independent Study courses, write to Independent Study, Continuing Education, 1515 St. Andrews Dr., Lawrence, KS 66047-1625, (785) 864-5823 or (877) 404-5823 (toll-free), enroll@ku.edu, www.ContinuingEd.ku.edu/is.

To earn a KU undergraduate degree, all students entering KU in fall 2003 and after must earn a minimum of 45 credit hours in courses numbered 300 and above.

The myKUMC student portal gives KU Medical Center students access to online resources: <https://my.kumc.edu>.

Honors Graduates

See also Graduation with Distinction and Highest Distinction, Honors Programs.

College of Liberal Arts and Sciences. Requirements are listed under Graduation with Honors in the College of Liberal Arts and Sciences: General Requirements chapter and in departmental sections of the College of Liberal Arts and Sciences: Majors, Minors, and Courses chapter of this catalog.

School of Engineering. For students who complete the school's or department's honors program, designation of honors appears on the transcript.

School of Nursing. For students who complete the school's honors program, designation of honors appears on the transcript. Requirements are listed under Departmental Honors Program in the School of Nursing chapter of this catalog.

Honors Programs

See University Honors Program in the College of Liberal Arts and Sciences: General Requirements chapter. Honors courses are open to qualified students in any KU school. See also Honors Graduates.

The Schools of Engineering and Nursing offer school honors programs for their students.

Incompletes

The grade of I indicates that some part of the work in a course has, for good reason, not been done, while the rest has been completed satisfactorily. Before reporting a grade of I, the instructor may require the student to submit a justifiable request and an acceptable plan for completing the remaining work.

The regulated due date for completion is determined by whether the instructor specifies that repetition of a portion of the classroom work is required. If repetition is required, the regulated due date is the end of the student's first semester of enrollment during which the course is again offered. In such cases, the student may attend classes but should **not** officially enroll in that course again. If repetition is **not**

required, the regulated due date is the end of the student's next fall or spring semester of enrollment.

The instructor may establish a due date **earlier** than the regulated due date. If the remaining work is completed before the due date, the instructor reports the change of grade following regulated policies and standard procedures.

If the remaining work is **not** completed before the regulated due date, a grade change is initiated by the dean of the school or college to which the student is currently admitted. The grade of F is recorded routinely unless the instructor has previously requested that another grade be recorded instead. Once the grade of F has been recorded, the option to obtain a better grade is normally no longer available.

College of Liberal Arts and Sciences. The course instructor must stipulate the final date for completing work when the Incomplete grade is recorded. The final date may be no later than the regulated due date, explained above. Extensions to the time limit may be granted by the dean's representative on the written request of the instructor (contact College Student Academic Services). If the Incomplete is not changed by the stipulated date, the grade is automatically changed to whatever final grade the instructor recorded when the report was filed.

School of Business. The regulated due date, explained above, is observed. The instructor of the course may request an extension of the Incomplete.

School of Fine Arts. The regulated due date, explained above, is observed. The office of the dean may grant extensions to the time limit if the student submits a written request endorsed by the instructor.

School of Social Welfare. The regulated due date, explained above, is observed. An instructor who has an extended plan for completion may request an extension. While an Incomplete remains in a prerequisite course, the student may not enroll in the next course in that sequence.

Independent Study

Independent study may refer to course work taken through Continuing Education or to campus course work independently pursued. Contact the academic department directly to set up an independent study course to investigate a special research problem or directed reading in an area not covered in regular

Regulations and Requirements for KU Undergraduate Enrollment in Independent Study Courses Offered Through Continuing Education

School in which student is enrolled	Limit on number of hours taken	Limit on hours taken in last 60 hours at KU	Figured into school's GPA ¹
College of Liberal Arts & Sciences (CLAS)	30 hrs.	12 of last 30 hrs. may be CE if student has 2.0 GPA in residence hrs. & CE hrs. are not in the major	Yes ²
Architecture & Urban Design	6 hrs. elective credit		Yes
Business	6 hrs. elective credit after admission to business		Yes ²
Education	20 hrs.	6 of last 30 hrs., 10 of last 60 hrs.	Yes
Engineering	No limit	No limit	No
Fine Arts	No limit	6 of last 30 hrs.	No (except honors graduates)
Journalism & Mass Communications	No limit	No limit	Yes
Nursing	31 hrs. ³		Yes (if letter grades)
Pharmacy	No limit	No limit	Yes
Social Welfare	No limit	No limit	Yes

College students in the last 30 hours must meet with a graduation adviser in College Student Academic Services, 109 Strong Hall, if the KU grade-point average is below 2.0, and/or with the major adviser if the Independent Study course is in the major. Permission is not considered unless the student has demonstrated high levels of academic ability in previous semesters. The Schools of Engineering, Fine Arts, Journalism and Mass Communications, and Social Welfare recommend but do not require the approval of an adviser or dean or both for enrollment in Independent Study courses. All other schools require an adviser's approval to enroll.

¹Independent Study grades are not calculated in the grade-point average that appears on the academic transcript.

²The College and Business calculate Independent Study grades in the grade-point average on the ARTS form and the grade-point average required for graduation but not in the grade-point average on the academic transcript.

³Combination of Independent Study, credit-by-examination, and/or extension courses.

courses. At KU, Continuing Education offers more than 150 approved Independent Study college courses similar to those taught in residence. Independent Study courses are available in online and media-supplemented versions. See Other Programs for a listing of courses. Call Independent Study Student Services, (785) 864-5823, for information or to request a copy of the *Independent Study Catalog*. Visit Independent Study online at www.ContinuingEd.ku.edu.

The chart above describes KU policy on undergraduate enrollment in Independent Study courses. See also Academic Transcripts, Nonresidence Study Before the Last 30 Hours, Required Work in Residence, Transfer of Credit.

Intellectual Property Policy

See Student Academic Creations in this chapter.

Junior/Senior Level Requirement

A minimum of 45 credit hours in courses numbered 300 or above is required for graduation from all KU undergraduate schools.

Maximum and Minimum Semester Enrollment

No student may enroll for more than 20 hours per semester except by permission of the dean of the school in which the student is enrolled. Schools may adopt more restrictive policies. (Subject to change.) See also Full-time Student Status.

College of Liberal Arts and Sciences. No student may enroll for more than 20 hours per semester except by permission of the assis-

tant dean of undergraduate services. Summer enrollment is limited to 10 hours. Permission is not considered unless the student has demonstrated high levels of academic ability in previous semesters.

School of Architecture and Urban Design. No student may enroll in more than 19 or fewer than 14 hours without the approval of the chair. No more than 14 hours may be taken in summer session. A student on probation may not enroll in more than 15 hours without permission of the chair or associate dean.

School of Business. No student may enroll for more than 20 hours per semester, or more than 9 hours in a summer session without permission from an undergraduate adviser.

School of Education. A 12-hour enrollment is a minimum full-time enrollment. Enrollment for more than 19 hours during fall or spring semesters or more than 9 hours during the summer session requires special permission from the associate dean and is not considered unless the student has demonstrated academic ability and the adviser's approval.

School of Engineering. The normal course load is 15 hours a semester. A student may not enroll in more than 19 credit hours during any semester or more than 12 credit hours during the summer session except with approval of the major adviser and the dean.

School of Fine Arts. The normal maximum enrollment is 21 hours during fall or spring semesters or 9 hours during the summer session. Students may exceed the normal maximum enrollment only with the permission of the dean.

School of Journalism and Mass Communications. The normal enrollment is 15 to 16 hours a semester. A 12-hour enrollment is considered a minimum full-time enrollment. Enrollment in more than 18 hours a semester, or more than 9 hours during the summer session, requires special permission from the coordinator of undergraduate advising.

School of Social Welfare. The normal course load is 15 hours. Permission from the director of the B.S.W. program is required for enrollment in more than 18 hours.

Applied English Center. No student may enroll in more than 16 hours a semester, or more than 10 hours in the summer, without the permission of the AEC counselors. Students co-enrolled in Applied English Center courses and courses in another KU program are subject to these limits on total credit hours, as well as students enrolled exclusively in AEC courses.

University Special Student. The maximum enrollment is 6 hours. Exceptions may be approved by the associate registrar, 151 Strong Hall.

Maximum Community College Credit Allowed

No more than the equivalent of the first two years of work (64 hours) in any curriculum may be transferred from a community college. Transfer credit information is available online at www.admissions.ku.edu/requirements/credtran/find.shtml.

See also Nonresidence Study Before the Last 30 Hours, Required Work in Residence, Transfer of Credit.

School of Business. After a student has earned a total of 64 college credit hours from all schools attended, all subsequent credit hours earned at a community college or other two-year school add hours to the graduation requirement.

School of Education. Students must complete at least 62 hours of credit from KU (or other senior-level institutions) to be eligible to graduate.

School of Pharmacy. The School of Pharmacy allows a maximum of 75 credit hours from any accredited college or university toward completion of the Pharm.D. degree.

Nondegree-seeking Students

See Nondegree Applicants under Undergraduate Admission and Scholarships in the General Information chapter of this catalog. Nondegree students are not admitted to the Schools of Business and Pharmacy.

Nonresidence Study Before the Last 30 Hours

Before the last 30 hours required for the degree, students may, under certain conditions, take courses at other institutions and transfer the credit to KU. Before enrolling in a nonresidence course, check on how your courses will transfer to KU at www.admissions.ku.edu/requirements/credtran/find.shtml or complete KU's standard form, Request for Tentative Evaluation of Transfer Credit, in your dean's office or in College Student Academic Services for students in the College. After completing the course work, you must request that an official transcript be sent to the Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045. For transcripts to be official, they must be mailed from the college or university directly to KU. Faxed transcripts are not accepted for posting of transfer credit.

Nonresidence credit includes all credits from another college or university taken after initial enrollment at KU, all credits from KU Continuing Education classes, training center, and military service courses, and other undergraduate course work not formally offered in the *Timetable of Classes*.

For information about nonresidence study during the last 30 hours required for the degree, see Required Work in Residence. See also Transfer of Credit.

College of Liberal Arts and Sciences. Only transfer grades of C or higher apply toward course work for students entering KU in spring 1990 or after.

School of Business. Majors must submit the Request for Tentative Evaluation of Transfer Credit form before they enroll.

School of Journalism and Mass Communications. Majors must submit the Request for Tentative Evaluation of Transfer Credit form before they enroll.

Pass/Fail

See Credit/No Credit.

Prerequisites and Corequisites

Students may be excluded from a course on the basis of inadequate academic preparation.

College of Liberal Arts and Sciences. Some departments strictly enforce prerequisites. Students are administratively withdrawn from mathematics courses for which they do not meet prerequisites.

School of Architecture and Urban Design. The school strictly enforces prerequisites for all architecture courses. Students enrolled in a course without successfully completing the appropriate prerequisites may be administratively withdrawn without notice in the first weeks of the semester.

School of Business. The student is responsible for checking course prerequisites before enrollment. The Enroll & Pay system is not currently capable of checking prerequisites for all courses at the time of enrollment. Course rosters are checked before the start of each semester and again after the last day to add classes online. Students who are enrolled in a course without its prerequisites are administratively withdrawn without notice during the first four weeks of the semester.

School of Engineering. Students may be administratively withdrawn from courses for which they do not meet prerequisites.

School of Journalism and Mass Communications. Course prerequisites are strictly enforced. Students are administratively withdrawn from courses for which they do not meet prerequisites. Waiver is not granted if the prerequisite course was taken and failed or taken and not completed.

School of Pharmacy. In meritorious cases, course prerequisites may be waived by the department offering the course. Waiver is not granted if the prerequisite course was taken and failed.

Probation and Dismissal

College of Liberal Arts and Sciences. The College reviews all students at the end of fall and spring semesters and summer term to determine their academic standing. Students must maintain a 2.0 cumulative KU grade-point average to be in good academic standing. Students below that average are placed on probation.

Freshmen and Sophomores on Probation (between 0 and 59 completed hours). Each student in this category must earn a 2.0 term grade-point average until his or her cumulative KU grade-point average reaches 2.0, returning the student to good academic standing. Students who fail to meet these requirements are dismissed.

Juniors and Seniors on Probation (60 or more completed hours). Each student in this category must earn a 2.5 term grade-point average until his or her cumulative KU grade-point average reaches 2.0, returning the student to good academic standing. Students who fail to meet these requirements are dismissed.

To return to the College of Liberal Arts and Sciences the student must follow CLAS readmission guidelines.

Readmission after Dismissal. Students dismissed for the first time from the College of Liberal Arts and Sciences must wait at least one full fall or spring semester before returning to KU*. Summer session does not count as a full semester. In addition, a dismissed student must demonstrate academic success by completing a minimum of 6 hours of transferable academic course work at another higher education institution or through KU Independent Study. To be readmitted, students must attain a grade-point average of 2.5 or higher in all hours taken after dismissal. All course work taken at every institution is calculated into the grade-point average since dismissal, even if the student opted for that institution's retake policy. If students are lacking math or English courses to fulfill the Early and Continuous Enrollment requirements, they must complete all the courses necessary, through ENGL 101 (or equivalent) and MATH 101* (or equivalent) during the dismissal period. The College reviews the status of students dismissed from another KU school, based on CLAS regulations, beginning with the initial KU term. If the student would have been dismissed under CLAS regulations, this is considered a first dismissal, even though the student was not a CLAS student. Upon readmission, the student must maintain at least a 2.5 semester grade-point average until reaching good academic status to be allowed to continue in the College.

*This may mean that some students must actually wait more than one semester to meet these conditions and apply for readmission.

Students dismissed for the second time from the College of Liberal Arts and Sciences must wait at least one academic year before applying for readmission. In addition, a dismissed student must demonstrate academic success by completing a minimum of 12 hours of transferable academic course work at another higher education institution or through KU Independent Study. To be readmitted, students must attain a grade-point average of 2.5 or higher in all hours taken after dismissal. All course work taken at every institution is calculated into the grade-point average since dismissal, even if the student opted for that institution's retake policy. If students are

The Office of the Vice Provost for Student Success, Strong Hall, 1450 Jayhawk Blvd., Rm. 133, Lawrence, KS 66045-7535, publishes a Referral Guide. It provides information about KU policies and procedures. Much of this information is also online at www.studenthandbook.ku.edu, www.provost.ku.edu, and www.registrar.ku.edu.

Disability Resources, Strong Hall, 1450 Jayhawk Blvd., Room 22, Lawrence, KS 66045-7535, (785) 864-2620 (Voice/TTY), offers help to students and visitors with disabilities.

lacking ENGL 102 (or equivalent) and the second required math course (MATH 105, MATH 106, MATH 111, MATH 115, MATH 121, MATH 365 or BIOL 570 or an equivalent course), they must complete these courses during the dismissal period. Upon readmission, the student must maintain at least a 2.5 semester grade-point average until reaching good academic status to be allowed to continue in the College of Liberal Arts and Sciences.

Note: Students who are in their last 30 hours must meet with the readmission adviser in CLAS Student Academic Services to discuss their options.

A third dismissal is final.

School of Allied Health. For policies on probation and dismissal, contact the individual programs.

School of Architecture and Urban Design.

B.A. in Architectural Studies: Probation. Students are reviewed after each semester. A student is placed on probation if the KU semester or cumulative grade-point-average is below 2.0. Students placed on probation will be sent a letter stating the length of probation and the requirements for being returned to good standing.

B.A. in Architectural Studies: Continued on Probation. A student on probation may be continued on probation for one more semester if the following KU semester and cumulative grade-point-average shows considerable improvement, but the semester or cumulative grade-point-average is lower than 2.0.

B.A. in Architectural Studies: Dismissal. A student may be dismissed for poor scholarship if any of the following situations apply:

1. Fall and spring KU semester or cumulative grade-point-averages are below 2.0 with no considerable improvement.

2. The student has been placed on probation and has failed to meet the conditions required to return to good standing.

3. The student has repeatedly failed to make progress toward graduation.

B.A. in Architectural Studies: Reinstatement. Appeals for reinstatement may be submitted to the school's probation committee, School of Architecture and Urban Design, 206 Marvin Hall. A student reinstated has one semester to return to good standing.

B.A. in Architectural Studies: Good Standing. Students with KU semester and cumulative grade-point-averages of 2.0 or above are in good standing.

Master of Architecture: Probation. See the School of Architecture and Design Web site, www.saud.ku.edu, for the probation policy for the new first-professional M.Arch. degree.

School of Business. Probation Policy:

Placed on Probation. A student whose cumulative grade-point average, either overall or at KU (in all courses or professional courses), is lower than 2.2 is placed on probation for the following semester.

Continued on Probation. A student on probation is continued on probation for one more semester if the KU semester grade-point average is at least 2.2, but the cumulative grade-point average, either overall or at KU (in all courses or professional courses), is lower than 2.2.

Returned to Good Standing. A student on probation is returned to good standing if the cumulative grade-point average both overall and at KU (in all courses and professional courses) is at least 2.2.

Dismissed. A student on probation is dismissed for failure to earn a KU grade-point average of at least 2.2 (in all courses and professional courses) in the next semester of enrollment, or if after two consecutive semesters on probation, the cumulative grade-point average, either overall or at KU (in all courses and professional courses), is not at least 2.2. Students are readmitted through the competitive admission process. Those students are dropped from all courses for the next semester and must complete a Change of School form.

School of Education. Probation Policy:

Placed on Probation. Students must maintain a minimum cumulative grade-point average of at least 2.5. Students whose cumulative grade-point averages are below 2.5 at the end of any semester are placed on academic probation.

Dismissed. If at the end of the following semester (spring or fall) the cumulative grade-point average is not 2.5 or above, the student is dismissed from the school. Those students are dropped from all courses for the next semester and required to complete a Change of School form to enroll. They are not allowed to enroll in any courses restricted to School of Education students until they are reinstated. Students admitted provisionally who don't fulfill specified criteria for admission revert to the school in which they were previously enrolled. In these cases, only courses restricted for School of Education students are dropped from the student's schedule.

Readmission after Dismissal. Programs are subject to change. Within one year of dismissal, if the cumulative grade-point average is at least 2.5, students are readmitted to the program to which they had been admitted. After one year, students who wish to follow the program to which they had been admitted must submit a petition to the associate dean. If the petition is denied, students must follow the current program (if different from the one to which they had been admitted).

School of Engineering. *Good Academic Standing.* Undergraduates must maintain both semester and cumulative grade-point averages of

2.0 or higher to remain in good standing. Students' academic standings are reviewed after each semester.

Probation. If a student's semester or cumulative grade-point average falls below 2.0, the student is placed on probation. The student will return to good standing if (1) the following semester cumulative and engineering grade-point average is 2.0 or higher, (2) the cumulative grade-point average is 2.0 or higher, and (3) all other requirements described in the probation letter are met. Students also may be placed on probation for failing to make progress toward an engineering degree or failing to be continuously enrolled in Applied English Center or English courses until all AEC and the ENGL 101 and ENGL 102 requirements are met.

Dismissal. A student on probation is dismissed if any of the following occur:

1. Any semester grade-point average is below 2.0 while the student is on probation.

2. The cumulative grade-point average is below 2.0 after two semesters on probation.

3. The student has failed to meet the other requirements stated in the probation letter.

4. The student on probation has failed to make progress toward an engineering degree or toward fulfilling all AEC and the ENGL 101 and ENGL 102 requirements.

Reinstatement. A student who has been dismissed for poor scholarship may submit a written petition for reinstatement to the associate dean. Forms are available in the dean's office, 1 Eaton Hall. A student does not automatically become eligible to re-enroll after a certain period of time. A student who is reinstated on probation must meet stringent academic requirements to be returned to good standing.

School of Fine Arts. Students may be dismissed at any time by the dean for excessive absences or for failure to make satisfactory progress in their studies.

A student not on probation who fails to earn a grade-point average of at least 2.0 in any semester is placed on probation for the following semester.

At the end of the semester in which the student has been on probation, he or she is removed from probation if the grade-point average for the semester is at least 2.0, with a minimum course load of 12 hours and a cumulative grade-point average of 2.0. A student whose course load is fewer than 12 hours or whose cumulative grade-point average is below 2.0 will continue on probation even if the semester grade-point average is 2.0 or above.

At the end of the semester in which the student has been on probation, he or she is dismissed for poor scholarship if the grade-point average for the semester is below 2.0.

A student who has been dismissed for poor scholarship is not eligible to enroll again at any time, except with the special permission of the chair of the department. A reinstated student is placed on final probation. If the student fails to achieve a minimum grade-point average of 2.0 for the semester, he or she is dismissed, and readmission is not granted.

Students who take courses at other institutions during the suspension may receive credit for such work only if it meets the approval of the department in which the student is doing major work.

School of Journalism and Mass Communications. If a student's cumulative or journalism grade-point average falls below a 2.5, the student is placed on probation for the following semester. If, during the probation, the student fails to raise the grade-point average to the minimum required, he or she is dismissed. Students who make significant improvement, even though they are not eligible to return to good standing, may receive a second semester of final probation. Once the overall and journalism grade-point averages return to 2.5, the student is returned to good standing. During the time the student is on probation, the student's load may not exceed 12 credit hours per semester without written permission of the coordinator of undergraduate advising.

School of Nursing. *Probation.* Students whose grade-point averages fall below 2.0 for the semester are placed on probation. The associate dean of student affairs notifies the student by letter. It is the student's responsibility to seek a conference with the student affairs adviser. The student and the student affairs adviser assess the situation jointly and make appropriate recommendations.

Return to Good Standing. A student remains on probation until completion of the next term in which the student is enrolled full time. (Full-time enrollment is 12 hours or more; full-time summer session enrollment is 6 hours or more.) To be removed from probation, a part-time student must maintain a 2.0 grade-point average in the next 12 semester hours of enrollment. Only courses required for the nursing major (junior/senior course work) apply toward the required grade-point average for removal from probation. If the student attains a grade-point average higher than 2.0 in the probationary semester, the student is removed from probation. No student may graduate with a nursing grade-point average lower than 2.0 or an overall grade-point average lower than 2.0.

Dismissal. If the student does not attain a grade-point average higher than 2.0 in the probationary semester, the student is dismissed for academic reasons. One nursing course may be repeated one time only if necessary to earn the minimum grade of C or S. Failure to achieve a minimum grade of C or S in two nursing courses or one repeated nursing course results in the student's dismissal.

School of Pharmacy. Probation. A student who fails to attain a 2.25 grade-point average in all courses or in professional courses in any semester, or whose overall or professional course grade-point average falls below 2.25, is placed on probation.

Dismissal. Students are dismissed if

1. They fail to attain a 2.25 grade-point average in all courses or in professional courses for any semester while on probation or
2. They receive a grade of F in 40 percent or more of the courses taken during any semester.

Petitions. Students dismissed for poor scholarship may file a written petition with the committee on academic standards for reinstatement. The committee's decision is final. The committee normally takes one of the following actions:

1. The student is allowed to enroll, often with specific recommendations regarding strategies for restoring good academic standing.
2. The committee may deny the petition.

Courses Taken Outside the School. Students on probation or on non-degree-student status may take courses outside the School of Pharmacy, or at other institutions, to improve the grade-point average. Prior approval is required, and in general, only courses that count toward graduation are honored.

Return to Good Standing. Students are returned to good standing when the overall pharmacy grade-point average reaches 2.25.

School of Social Welfare. Students who achieve less than a 2.5 grade-point average or who receive a grade of U in field practicum are referred to the academic performance committee, which reviews the record and makes a recommendation to the dean. At the end of the probationary semester, the adviser and the academic performance committee evaluate students who fail to bring their grades up to the required standards. The adviser and the committee then make a recommendation to the dean about future enrollment.

Repetition of Courses

Students may repeat for credit a college course in which they have received a grade of D or F without the consent of the dean or the chair of the department offering the course. Subject to certain restrictions, the student may elect to replace the original grade with the new grade for use in calculating the grade-point average. Grades are not removed from the student's transcript. To elect this choice, students must submit a form available in the dean's office of the school offering the course (for College courses, in College Student Academic Services). See the University Senate Rules and Regulations, Article II, Sections 2.2.9.1 and 2.2.10 or www.registrar.ku.edu/repeat for information.

With permission of the dean and the department chair, students may repeat for credit a college course in which they have received a grade of A, B, or C. Both grades are used in calculating the grade-point average. This rule does not apply to re-enrollment in such courses as independent study, physical education skill courses, and thesis or dissertation. See the University Senate Rules and Regulations, Article II, Section 2.2.9 or www.registrar.ku.edu/repeat for information.

Students who receive a grade of Incomplete in a course should not re-enroll in that course.

School of Business. After admission to the school, students may not repeat any course for which they have received grades of A, B, C, or D.

School of Journalism and Mass Communications. For admission to the school, all grades in all courses taken and retaken are included in calculating a student's grade-point average. For graduation and to determine good academic standing, the journalism grade-point average is calculated by including all grades in all journalism courses.

School of Nursing. For admission to the school, grades in all courses taken and retaken are included in the grade-point average. All grades are considered for calculation of honors and awards.

Required Work in Residence

No baccalaureate degree is granted to a student who has not completed at least 30 semester credit hours of residence courses at KU. No exceptions are granted.

To earn a bachelor's degree from KU, you must complete the last 30 hours of credit for the degree by resident study. You may petition your dean for a waiver.

College of Liberal Arts and Sciences. A student may complete 12 of the last 30 hours at another institution of higher learning, if he or she (1) has earned a grade-point average of at least 2.0 in residence and (2) will not take courses required for the major or minor out of residence. Students wishing to take courses out of residence in the last 30 hours must see a College graduation adviser before leaving KU.

School of Architecture and Urban Design. All students must complete 30 hours of KU work. Students who have grade-point averages of 2.0 in total and in residence hours may take up to 12 of the final 30 hours in nonresident study. Such an enrollment requires prior approval by petition and excludes fifth-year design studios.

School of Business. After admission to the school, written advance permission of the director of undergraduate programs is required for work taken at another institution to be applied to a student's degree. Nonresident credits may fill only elective requirements. They may not be used for courses specifically required for graduation.

School of Education. To be eligible for the B.S.E. degree, a student must complete at least 30 hours at KU and at least 30 hours after being admitted to the school. Up to 6 hours of work done at another institution may be accepted as part of the last 30 hours. Before enrolling in a nonresident course, the student should complete a Request for Tentative Evaluation of Credit in 208 J.R. Pearson Hall. After completing the course, the student must request that an official transcript be sent to KU.

School of Engineering. Students must be enrolled in the school for the last 30 hours of credit.

School of Fine Arts. Six of the final 30 hours may be taken for nonresident credit, with advance permission. Nonresident credit may fill only elective requirements not in the major field of study.

School of Journalism and Mass Communications. Students must have the permission of the coordinator of undergraduate advising. Up to 6 hours of work done at another institution may be accepted as part of the last 30 hours, if the hours are not in required courses.

School of Pharmacy. Of the last 30 hours preceding graduation, 24 hours must be in residence at the KU School of Pharmacy.

School of Social Welfare. The undergraduate director's permission is required. Up to 6 hours of work taken at another institution may be accepted as part of the last 30 hours, if the hours are not in required social work courses.

See also Nonresidence Study Before the Last 30 Hours, Transfer of Credit.

Residence Credit

Residence credit includes all KU course work offered in the *Timetable of Classes*, www.timetable.ku.edu. Graduate-level Independent Study courses offered through Continuing Education are considered non-residence credit. College-level course work includes only courses numbered 100 and above.

Student Academic Creations

All enrolled students are subject to the Board of Regents and KU Intellectual Property Policies. The ownership of student works submitted in fulfillment of academic requirements remains with the creator(s). By enrolling in the institution, the student gives it a nonexclusive royalty-free license to mark on, modify, retain the work as required by the process of instruction, or otherwise handle the work as set out in the institution's Intellectual Property Policy or in the course syllabus. The institution does not have the right to use the work in any other manner without the written consent of the creator(s). The complete policy is available online at www.provost.ku.edu.

Students considering transferring to KU may see how their college-level course work will transfer by going online to www.admissions.ku.edu/requirements/credtran/find.shtml.

For information about the KU Edwards Campus, 12600 Quivira Rd., Overland Park, KS 66213-2402, call (from Lawrence): 864-8400 or (913) 897-8400, Web site: <http://edwardscampus.ku.edu>.

See the University Governance Web site, www.ku.edu/~unigov/docum.html, for current KU regulations.

Student Responsibility

Each student is responsible for conforming with regulations in this catalog and any others that may be required. Advisers and personnel are available to provide guidance, but each student is responsible for selecting courses that fulfill requirements for the degree sought. Each senior must file an Application for Degree by the school or department AFD deadline. The Code of Student Rights and Responsibilities is online at www.vpss.ku.edu/rights.shtml.

Study Time

The faculty assumes that students will spend two hours per week studying for each hour in class.

Transcripts

See Academic Transcripts.

Transfer of Credit

A transfer student must complete a minimum of 30 credit hours in residence at KU before receiving a bachelor's degree. See also Required Work in Residence.

Evaluation of Credit

KU is flexible in accepting transfer credit if the courses to be transferred were of an academic nature and were taken at colleges and universities that are regionally accredited. International colleges and universities must be officially recognized by the Ministry of Education in their countries for students to receive transfer credit. Courses that are vocational, technical, remedial, or medical (except KU Medical Center programs) do not transfer. CredTran is a transfer course equivalency system that lists more than 2,200 colleges and universities from which KU has accepted transfer courses in the past. It is available online at www.admissions.ku.edu/requirements/credtran/find.shtml. If your school or course is not listed, your evaluation will be completed when you are admitted to KU. Program sheets for many KU programs are prepared for each Kansas community college and the Metropolitan Community College district of Kansas City, Missouri. A student from one of these community colleges should consult a program sheet to determine how courses will transfer to KU. These sheets are available from community college counselors or the KU Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045-7576, (785) 864-3911, adm@ku.edu.

KU adheres to the Board of Regents articulation agreement between Regents' institutions and Kansas community colleges.

Submit applications for admission with the appropriate transcripts to the Office of Admissions and Scholarships. International students should submit applications and transcripts to the Office of International Undergraduate Admissions. An official evaluation of how courses transfer is made after the student is admitted.

For transcripts to be official, they must be mailed from the college or university directly to KU. Faxed transcripts cannot be used to evaluate transfer credit.

Policy on Transfer Credit

All transferred courses are recorded on the student's academic record. Where necessary, course titles are changed to agree with KU course titles. Transfer courses do not appear in detail on the academic transcript. Courses completed at other institutions are applied toward graduation requirements in accordance with the policies of the schools.

The Faculty Senate Rules and Regulations provide that, to be accepted, the courses must be from an institution accredited by the North Central Association or another regional accrediting agency of similar standing. For credit from a U.S. institution that is not accredited by an acceptable regional agency, the Faculty Senate Rules and Regulations allow acceptance based on the practices of the leading university in the state where the institution is located.

College of Liberal Arts and Sciences. Only transfer grades of C or higher contribute to total hours earned for students entering KU in spring 1990 or after, and for courses taken in spring 1990 or after by all students. For questions about transfer work fulfilling College requirements, contact College Student Academic Services, 109 Strong Hall.

School of Architecture and Urban Design. Only grades of C or higher are accepted in transfer credit toward a degree. Students who wish to transfer design courses may do so only upon submission of a portfolio of work done in such courses. Placement in the professional curriculum is based on completed course work, a review of the comprehensive portfolio of prior work in architecturally oriented courses, and on a space-available basis. The student must conform to the work in residence requirements stated above.

School of Business. Courses completed at other institutions are accepted to fulfill graduation requirements (e.g., in place of specifically prescribed courses), only if they are substantially equivalent as indicated by course description, hours of credit, and prerequisites. For professional courses not listed on CredTran (www.admissions.ku.edu/requirements/credtran/find.shtml), the student must submit a petition along with a course syllabus to the School of Business. Petition forms are available from Student and Academic Services, 206 Summerfield Hall.

School of Education. Courses completed at other institutions are accepted to fulfill graduation requirements (e.g., in place of specifically prescribed courses), only if they are substantially equivalent as indicated by course description. At least 62 hours must be completed at an upper-division institution.

School of Engineering. The School of Engineering does not routinely accept credits from foreign institutions or from vocational-technical programs in the United States. Before such courses may be added to a student's official KU record as transfer credits, they must be validated (1) by examination by the department or school offering the course on the KU campus, (2) by earning a grade of C or higher in a later course in the sequence of courses, or (3) by earning a grade of C or higher in a related course.

Credits for English composition at a foreign institution of higher education are not accepted for the required English courses in any engineering curriculum.

Credits from courses completed at the secondary level, whether from U.S. or from foreign schools, are not added to a student's official record unless the student obtains college credits through one of three examination programs: (1) the College Entrance Examination Board's Advanced Placement test, (2) KU's own credit by examination program, or (3) the College Level Examination Program.

A course from another college or university may apply toward the Bachelor of Science in Engineering degree as transfer or nonresident credit only if the grade received is at least C.

Transfer credit in engineering science and engineering design from institutions accredited by the Accreditation Board for Engineering and Technology and from institutions with which KU has approved articulation agreements may be applied toward the degree as appropriate in the particular engineering curriculum. Transfer credit in engineering from other institutions must be evaluated and validated on a case-by-case basis.

School of Fine Arts. Only grades of C or higher are accepted as transfer credit toward degrees. Applicants with a lapse of four or more years since their last full-time enrollment may not expect studio credits in visual arts to be accepted for transfer.

School of Journalism and Mass Communications. A maximum of 12 hours of journalism course work taken at other institutions may count toward a degree. Other journalism courses do show on the transcript, but the hours are treated as excess, and an equal number

of hours is added to the 124 required for graduation. A student must complete at least 18 hours of journalism at KU. Courses with grades of D are not accepted for transfer credit.

School of Nursing. Only transfer grades of C or higher apply toward graduation at KU.

School of Social Welfare. No more than 64 hours of community college work may be transferred toward a degree in the School of Social Welfare. Courses completed at other institutions are accepted to fulfill graduation requirements in social welfare (e.g., in place of specifically prescribed courses), only if they are substantially equivalent, as indicated by course description, hours of credit, and prerequisites.

See also Nonresidence Study Before the Last 30 Hours, Required Work in Residence.

Withdrawal from a Course

This information is subject to change. Specific dates and updates are listed each semester in the *Timetable of Classes*, online at www.timetable.ku.edu.

Withdrawal (Drop) Policies for All Students

- Each semester and term is divided into three periods.
- The deadlines for irregular-length courses are adjusted according to the length of the course. Contact the Student Records Center, Strong Hall, 1450 Jayhawk Blvd., Room 151, Lawrence, KS 66045-7535, (785) 864-4423, for specific dates.
- Refund dates differ from the dates for canceling and withdrawing from a course.
- During the first period, all schools and colleges allow students to cancel a course. A canceled course does not appear on the student's academic record.
- During the second period, students may withdraw, which means that a W appears on the student's transcript. No approvals are required.
- A W does not change the student's grade-point average.
- During the third period, the student must obtain the instructor's signature; the instructor assigns a grade of W or F.
- Drops or withdrawals are official as of the date they are presented in person, and the request is entered in the Student Records Database, to the Stu-

dent Records Center in 151 Strong Hall on the Lawrence campus, to the Edwards Campus reception desk in Overland Park, or to the Office of the Registrar on the KU Medical Center campus.

- Most schools require students to obtain an adviser's signature and/or dean's stamp to drop or withdraw from a course. Specific requirements are listed by semester in the *Timetable of Classes*, online at www.timetable.ku.edu.

School of Business. During the third period, a drop card for each business course is necessary.

Withdrawal from the University (Dropping All Courses)

Withdrawal from KU during the first withdrawal period cancels all courses. During the second period, all courses are graded W. See the current *Timetable of Classes*, www.timetable.ku.edu, for refund dates. See also Withdrawal from a Course. For current information, see www.registrar.ku.edu/timetable/withdrawal.

It is the student's responsibility to contact the academic school or college in which he or she is enrolled to begin withdrawal. Begin the withdrawal process in College Student Academic Services, 109 Strong Hall, or in the dean's office of your school. The procedure is not complete until you have submitted the withdrawal form in person to the Student Records Center, 151 Strong Hall, Lawrence campus, or to the Office of the Registrar, KU Medical Center campus.

The Academic Achievement and Access Center and the Emily Taylor Women's Resource Center also offer help with the withdrawal decision and process.

College of Liberal Arts and Sciences. When an undergraduate withdraws from KU, all Liberal Arts and Sciences courses being taken for undergraduate credit are automatically graded W. Check with other schools for their policies on classes not offered by the College.

School of Business. A drop card for each business course is necessary when a student withdraws from KU during the third period.

School of Engineering. A drop card for each engineering course is necessary when a student withdraws from KU during the third period. The instructor assigns a grade of W or F.

The Office of Admissions and Scholarships is in the KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045-7576, (785) 864-3911, fax: (785) 864-5017, adm@ku.edu, www.admissions.ku.edu.

The Office of International Undergraduate Admission is in Strong Hall, 1450 Jayhawk Blvd., Room 17, Lawrence, KS 66045-7535, (785) 864-2616, issapps@ku.edu, www.ku.edu/~issfacts.

College of Liberal Arts and Sciences: General Requirements

Joseph Steinmetz, Dean

Strong Hall, 1450 Jayhawk Blvd., Room 200,
Lawrence, KS 66045-7535, www.clas.ku.edu/us

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College of Liberal Arts and Sciences: General Requirements

Joseph Steinmetz, Dean
Strong Hall, 1450 Jayhawk Blvd., Room 200,
Lawrence, KS 66045-7535, (785) 864-3661
Student Academic Services
109 Strong Hall, (785) 864-3500
clas109@ku.edu or www.clas.ku.edu/us
Fax: (785) 864-5806
Degrees offered: B.A., B.G.S., B.S., M.A., M.S., Ph.D.

Aims

The College of Liberal Arts and Sciences (called the College or CLAS) is KU's largest academic unit with 53 departments and programs. The liberal arts and sciences include disciplines in the humanities, social sciences, and natural and mathematical sciences. The humanities are the study of the constructions or creations of humans over time (literature, religion, philosophy, history, culture, language, etc.); the social sciences are the study of how and why humans behave as they do individually, in groups, or in society (psychology, sociology, anthropology, etc.); the natural sciences involve explanations and predictions of the natural world.

Liberal education at the undergraduate level is typically broad rather than specialized. Its aim is to develop a citizenry that is broadly informed and capable of critical appraisal and to provide fundamental knowledge in many fields. The mission of the College, as reflected in KU's bachelor's degree requirements, is to provide such an education, both for CLAS students and those in the professional schools. The College takes full advantage of KU's role as a research institution to ensure that the knowledge imparted to students is current and that they learn the skills of inquiry and critical evaluation.

Admission

All students applying for admission must send high school and college transcripts to the Office of Admissions and Scholarships. Unless they are college transfer students with at least 24 hours of credit, prospective students must send ACT or SAT scores to the Office of Admissions and Scholarships. Prospective first-year students should be aware that KU has qualified admission requirements that all new first-year students must meet to be admitted. Consult the Office of Admissions and Scholarships for application deadlines and specific admission requirements, or see Undergraduate Admission and Scholarships in the General Information chapter of this catalog. Students considering transferring to KU may see how their college-level course work will transfer by going online to www.admissions.ku.edu/requirements/credtran/find.shtml.

Admission to the College is a different process from admission to a major field. Some CLAS departments have competitive or selective admission procedures. See Admission to the Major in this chapter of the catalog for information.

Visit Our Web Site

The College of Liberal Arts and Sciences Web site, www.clas.ku.edu, has current information. Visit the Web site for information about College programs, services, resources, policies, and procedures.

Advising

Academic advising helps students develop educational plans, clarify career and life goals, and appreciate the values of a liberal arts education. The system is one of shared responsibility in which all members of the College community—faculty, students, and staff—interact to achieve advising goals and desired outcomes.

The goal of CLAS advising is to help each student reach maximum educational potential. This goal is achieved by giving students the best possible academic advice, including timely selection of appropriate programs, course work, and other opportunities.

CLAS encourages students to consult frequently with advisers whenever they have questions or problems. Academic advisers serve as guides, helping students explore options and make decisions. CLAS first-year students and undeclared sophomores are assigned advisers in the Freshman-Sophomore Advising Center, 126 Strong Hall. FSAC also provides prelaw and pre-Allied Health advising. The premedical adviser in College Student Academic Services assists premedicine, predentistry, preoptometry, prephysician's assistant, and preveterinary students. Declared sophomores, juniors, and seniors have faculty advisers in their major departments.

College Student Academic Services, 109 Strong Hall, provides additional full-time advisers for prospective or new transfer juniors and seniors; juniors and seniors who are undecided, changing majors, in subject-to-dismissal academic status, newly readmitted, or seeking a retroactive course withdrawal; students at all levels who entered KU before fall 1987; and students at all levels who have policy or petition questions or issues. These students are referred to faculty academic advisers in their majors as soon as possible.

CLAS believes in the Three R's of Advising established by the KU Advising Network: responsibility, resources, and relationships. Students are expected to schedule regular visits with advisers and take own-

Photo, page 52:
Professor Ron Francisco teaches a political science class as part of the curriculum for the European studies co-major.

ership of their education. They should learn about policies, procedures, and requirements and take advantage of on- and off-campus opportunities. Students should work toward relationships with their advisers that foster open communication and build connections. See Academic Advising in the General Information chapter of this catalog.

ARTS (Academic Requirements Tracking System). ARTS, a computerized advising and degree-audit system, helps students and advisers track progress toward completion of general education degree and major requirements for B.A., B.G.S., and B.S. degrees. Students should take an ARTS form to all advising appointments. They may request copies at other times at College Student Academic Services or online at www.artsform.ku.edu. Check www.clas.ku.edu/us for access to your ARTS form. Although the ARTS form provides a list of courses taken and grades earned, it is not an official transcript and can be used only for internal advising. Students must obtain all official transcripts from the Student Records Center, 151 Strong Hall.

Academic Integrity

CLAS strictly enforces KU and CLAS policies on academic misconduct. Academic integrity requires honest performance of academic responsibilities by students. These include preparation of assignments, reports and research papers, taking examinations, and a sincere and conscientious effort by students to abide by the policies set forth by instructors. See the General Regulations chapter of this catalog.

Degrees

The College of Liberal Arts and Sciences offers three degrees at the baccalaureate level: the Bachelor of Arts (B.A.), the Bachelor of General Studies (B.G.S.), and the Bachelor of Science (B.S.). In the past two years, 56 percent of the degrees earned through CLAS were B.A. degrees, 33.5 percent were B.G.S. degrees, and 10.5 percent were B.S. degrees.

The **B.A. degree** may be earned with a major in all departments and programs in the College except atmospheric science. The B.A. is the traditional baccalaureate degree, structured to ensure both breadth and depth of knowledge by extensive general education degree requirements and approximately one-fourth of total course work in the major.

The **B.G.S. degree** is available with a major in humanities areas except for the languages and in all social sciences, but only in environmental studies and geography in the natural science majors. The primary distinction between the B.A. and the B.G.S. is the study of a foreign language, which is required for the B.A. but not the B.G.S.

The **B.S. degree** is offered by all natural science areas except human biology, as well as economics and cognitive psychology. General education degree and major requirements are determined by each program offering the degree and may be different for each B.S. degree in the College. With fewer required nonscience general education degree requirements, the B.S. permits more depth in the major. It requires additional work in supporting science areas.

Two Degrees

Double Degrees in the College of Liberal Arts and Sciences. The following combinations of degrees are allowable within CLAS as long as the student has completed at least 15 hours unique to each major:

- Two (or more) B.S. degrees. These must be different B.S. degrees, not different concentrations within the same B.S. degree.
- B.A. and B.S. degrees as long as the degrees are in different areas. Students may not, for example, earn both a B.A. and a B.S. in mathematics.
- B.G.S. and B.S. degrees as long as the degrees are in different areas. Students may not, for example, earn both a B.G.S. and a B.S. in economics.
- Students may complete the requirements for more than one emphasis area or concentration in a major or degree program but should be aware that they are not completing a second degree. The following two examples illustrate this point: (1) a student who completes all requirements for both the genetics option and the cellular biology option is earning one degree, the B.S. degree in biology; (2) a student who completes all requirements for both the traditional English option and the creative writing option is earning one degree, either the B.A. in English or the B.G.S. in English.
- Students may earn a B.A. or a B.G.S. with more than one major but not more than one B.A. or B.G.S. degree from CLAS.
- Students normally may not earn a B.A. degree and a B.G.S. degree. Exceptions to this must be approved by the Committee on Undergraduate Studies and Advising (CUSA). Requests for exceptions should be discussed with the assistant dean of Student Academic Services.

Double Degrees in CLAS and a Professional School.

Students who wish to work simultaneously for a degree from CLAS and a degree from one of the professional schools may do so, provided

- The professional school permits such enrollment.
- Both schools approve the student's program for each semester.

Early and Continuous Enrollment in English and Math (All Degrees)

Students must enroll the first semester at KU in the English composition course appropriate for their placement and must continue to take English courses until they have completed ENGL 102 Composition and Literature (or ENGL 105, the honors equivalent).

No later than the second semester in CLAS, all students must enroll in the mathematics course in which they have been placed and must continue to take mathematics courses until they have completed MATH 101 Algebra or MATH 104 Precalculus Mathematics. Students who demonstrate eligibility to enroll directly in calculus through ACT, SAT, or placement test scores are exempt from this early and continuous enrollment requirement.

For specific information on English placement, see the general education English requirement section of this catalog. See the Placement Table for Initial Enrollment in Mathematics in this catalog or consult the Department of Mathematics, 405 Snow Hall, for information on placement in mathematics.

Requirements for Graduation (All Degrees)

Grade-point Average Required for Graduation

To be eligible to graduate from the College of Liberal Arts and Sciences with any of the three degrees (B.A., B.G.S., or B.S.), a student must earn at least a 2.0 grade-point average in courses taken at KU (including grades earned in Independent Study courses through KU Continuing Education), at least a 2.0 in KU junior/senior courses in the major, and at least a 2.0 in the KU courses taken for the minor.

First- and second-year students may consult advisers in the Freshman-Sophomore Advising Center, Strong Hall, 1450 Jayhawk Blvd., Room 126, Lawrence, KS 66045-7535, (785) 864-2834, www.advising.ku.edu.

The College adheres to the Goals of General Education at KU. See page 15.

You must declare a major no later than the end of your junior year. See Declaration of Major, page 55.

Minimum & Maximum Hour & GPA Requirements for All CLAS Degrees (B.A., B.S., B.G.S.)**Minimums**

Total hours **124**
 Junior/senior hours (numbered 300 or above) **45**
 Hours in residence at KU **30**
 KU cumulative grade-point average **2.0**
 GPA in KU junior/senior hours in the major **2.0**
 GPA in KU hours in the minor **2.0**

Maximums

Hours from community colleges **64**
 Hours in physical education activity courses **4**
 Hours in music organization courses **6**
Note: Courses numbered below 100 do not count toward a degree but are included in the grade-point average.

Hours Required for Graduation

To be eligible to graduate from CLAS with any of the three degrees (B.A., B.G.S., or B.S.), a student must successfully complete at least 124 credit hours, 45 of which must be junior/senior hours (numbered 300 and above). The required 124 hours are divided into three categories: general education degree, major, and elective requirements. The total hours are increased by enrollment in MATH 002 or any developmental course numbered below 100. The total also is increased by enrollment in excess of 64 hours of community college credit, 4 hours in physical education activity courses, 6 hours in music organization courses, and any repeated courses for which a student has already received credit.

General Education Degree Requirements

All three degrees require courses that reflect the breadth of the disciplines in the College. For the B.A. and B.G.S. degrees, these are described under General Education Degree Requirements in this chapter. Consult the appropriate department section for the requirements for each B.S. degree.

Electives Required for Graduation

Each degree allows a certain number of elective hours. In addition to general education degree and major requirements, students may choose elective courses to bring the total credit hours to 124. In choosing electives, students should be aware of limits in certain areas listed under Hours Required for Graduation.

Junior/Senior Hours Required for Graduation

KU requires all students pursuing bachelor's degrees to complete a minimum of 45 credit hours at the junior/senior level (courses numbered 300 and above).

Major Requirements (All Degrees)

Every student must complete a major to graduate with a degree in CLAS. This ensures that the student has studied at least one discipline in depth. The average number of required credit hours in the major for the B.A. degree is 30 hours. The Board of Regents requires a major to be at least 24 credit hours. See the individual major listings for specific minimum requirements.

Many departments make changes in degree requirements and course descriptions between printings of the *Undergraduate Catalog*. Check with department offices or College Student Academic Services. Most majors require students to complete requirements in effect at the time of admission to the major.

Declaration of Major

By the beginning of the junior year, a student should declare a major by completing a Major Declaration

form and choosing a major adviser in the office of the major department or program. If a student is pursuing a double major, he or she should complete a Major Declaration form in each major department. The declaration should be made as soon as the student has decided on the major.

CLAS requires every student to declare a major or be admitted to a professional school no later than the semester after completion of 60 credit hours. Failure to declare a major by this time results in a hold, requiring the student to consult with an adviser before enrolling. The hold will continue until the student has declared a major. For a major to be officially declared, CLAS Student Academic Services must receive a copy of the Major Declaration Form signed by the student and the major department representative.

This policy does not preclude changing or adding majors. Changing majors late in the academic career can delay graduation. Consult an adviser.

Students are encouraged to explore different disciplines before choosing their majors. Students who are not ready to declare a major can register interest in a major at CLAS Student Academic Services. Help with choosing a major can be obtained at the Freshman-Sophomore Advising Center (126 Strong Hall), CLAS Student Academic Services (109 Strong Hall), and the University Career Center (110 Burge Union).

Admission to the Major

The following CLAS departments have competitive or selective admission requirements for their majors:

Communication Studies. Students are admitted to the major through a competitive application process. The review of applications is based on

1. A minimum grade-point average of 2.5 in COMS 130 and an additional course chosen from COMS 104, COMS 235, COMS 244, COMS 246, COMS 310, or COMS 332, or at least a C in one course plus a waived course. The grade-point average in all COMS courses taken is used in determining admission.
2. An overall grade-point average of at least 2.0 and completion of 30 hours of course work.
3. A statement explaining why the student wants to major in communication studies. The committee considers the content of that statement as well as information supplied by the student to enhance an argument for admission (such as membership in a protected class, extraordinary problems that led to a lower grade-point average, etc.).
4. Consultations with communication studies faculty members or graduate teaching assistants listed by the student as references and, if necessary, a supplementary interview with the student.

Applications are accepted during the first two weeks in September for fall semester and the first two weeks in February for spring semester. Admission is determined by the number of open slots for majors, which may vary according to department resources and the number of majors graduating or leaving the department.

English. There are three eligibility requirements for admission to the traditional English major:

1. A grade-point average of 2.5 or higher in the second and third English courses (ENGL 102 or ENGL 105 and a 200-level course).

2. An overall grade-point average of 2.0 or higher.
3. At least 30 hours of college credit completed.

For the English creative-writing major, students are admitted on the basis of successful performance in the first creative-writing course and with the permission of the director of undergraduate studies.

Political Science. A grade-point average of 2.3 in the three introductory courses (POLS 110, POLS 150, and POLS 170) is required for admission. After this requirement is met, students apply by filling out a Major Declaration form in the department office. The form is signed by a faculty adviser upon verification of the required grade-point average.

Psychology. The student must complete an application form supplied by the department and submit a current ARTS form. Applications may be submitted during the first two weeks of September, February, and June each year. Students may major in psychology if, when they apply, they meet these criteria:

1. Have completed at least 30 semester credit hours of college course work.
2. Have completed one semester (at least 9 hours) of courses at KU.
3. Have an overall grade-point average of at least 2.0 (C average).
4. Have completed PSYC 104, PSYC 300 or PSYC 310, and at least one of the psychology core courses (PSYC 318, PSYC 333, PSYC 350, PSYC 360, PSYC 370, PSYC 380) or their equivalents.
5. Have a grade-point average of at least 2.5 based on grades in PSYC 104, PSYC 300 or PSYC 310, and all psychology core courses completed at the time of application.

Sociology. Students must complete SOC 104 and two additional sociology courses, one of which is numbered 300 or above.

Spanish. The student must meet with an adviser in the Spanish department to complete the major requirement checklist. The student must

1. Have completed at least 30 hours of college course work,
2. Have at least a 2.0 overall KU grade-point average (excluding transfer hours).
3. Have completed SPAN 324 with a grade of A or B to go on to higher-level Spanish classes.
4. Have completed SPAN 340 with a grade of A or B to take 400-level literature classes.

KU Edwards Campus Majors

Students who would like to complete the bachelor's degree in the Kansas City area may choose from three CLAS undergraduate majors offered on KU's Edwards Campus in Overland Park. Online information is available at <http://edwardscampus.ku.edu>.

Developmental Psychology. B.A. and B.G.S. degrees are offered on KU's Edwards Campus. Call the CLAS undergraduate adviser at 864-8659 (from Lawrence) or (913) 897-8659 (outside of Lawrence). See requirements for the major under Psychology in the CLAS: Majors, Minors, and Courses chapter of this catalog.

Literature, Language, and Writing. B.A. and B.G.S. degrees are offered on KU's Edwards Campus. Call the CLAS undergraduate adviser at 864-8659 (from Lawrence) or (913) 897-8659 (outside of Lawrence). See requirements for the major under English in the CLAS: Majors, Minors, and Courses chapter of this catalog.

Molecular Biosciences. This B.S. degree is offered on KU's Edwards Campus. Call the CLAS undergraduate adviser at 864-8659 (from Lawrence) or (913) 897-8659 (outside of Lawrence). See requirements for the major under Biological Sciences in the CLAS: Majors, Minors, and Courses chapter of this catalog.

Public Administration. B.A. and B.G.S. degrees are offered on KU's Edwards Campus. Call the CLAS undergraduate adviser at 864-8659 (from Lawrence) or (913) 897-8659 (outside of Lawrence). See requirements for the major under Public Administration in the CLAS: Majors, Minors, and Courses chapter.

Hours in the Major: Maximums and Minimums

There is no limit on hours in the major for the B.A., B.G.S., or B.S. degree. Departments are not allowed to require more than 40 hours in the major for the B.A. nor more than 50 hours in the major for the B.S. Some skills courses, generally those used to fulfill general education degree requirements in English, math, and foreign language, are not included in this maximum limit. A minimum of 12 hours in the major must be in courses numbered 300 or above. At least 9 of these junior/senior hours must be taken in residence at KU.

Major Grade-point Average Requirement

A student must earn a grade-point average of at least 2.0 in KU junior/senior courses (numbered 300 and above) completed in the major.

Double Major

A student may earn a double major if he or she satisfies the requirements of both majors, obtains the approval of advisers in both majors, and completes 15 hours unique to each major.

Special Major

Students who feel that their best interests cannot be served by the majors listed may petition for a special major (B.A. or B.G.S.), if they follow the guidelines below. Such majors are supervised by special committees of three faculty members recruited by the student. Interested students should consult College Student Academic Services, preferably before the end of the sophomore year.

The following guidelines apply to special majors:

1. An official endorsement by one or more of the CLAS departments or degree programs involved must accompany a petition for a special major. The petition must be submitted to the committee on undergraduate studies and advising (CUSA).
 2. At least 12 credit hours numbered 300 or above counted toward the special major must be taken after approval of the special major.
 3. At least two committee members must be from the CLAS faculty.
 4. At least two-thirds of the credit hours to be counted toward the special major must be CLAS courses.
 5. Special majors must not overlap significantly with existing KU major programs and should not have the same titles as existing majors.
 6. A student seeking a special major must fulfill the general education degree requirements necessary for the B.A. or B.G.S. degree.
- Note:** Students considering classes to include in a special major should be guided by the fact that most CLAS majors require about 30 hours.

Minors

CLAS offers more than 30 approved minors. These are open to all students in the College regardless of the degree they are pursuing. Some KU schools permit their students to earn minors. Consult your adviser.

Minimum requirements for the minor are listed under Additional Requirements: Bachelor of General Studies Degree Only in this chapter of the catalog. See specific requirements for each minor in the CLAS: Majors, Minors, and Courses chapter of this catalog.

(continued on page 58)

Most department offices and Web sites have information about their majors and current listings of course requirements.

Requirements for majors are listed in the College of Liberal Arts and Sciences: Majors, Minors, and Courses chapter of this catalog. They are subject to change. Consult departments for current information.

CLAS General Education Degree Requirements

(Course numbers in parentheses are honors versions.)

For more specific information, consult CLAS General Education Degree Requirements (pages 58-63), Additional Requirements: Bachelor of Arts Degree Only (pages 63-64), Additional Requirements: Bachelor of General Studies Degree Only (page 64), and Bachelor of Science Degree Requirements (page 64).

B.A. and B.G.S. Common Degree Requirements

English

Three courses

- ENGL 101 (or exemption based on ACT or SAT score) and
- ENGL 102 (105) and
- ENGL 203 (205) or ENGL 209 or ENGL 210 or ENGL 211

Oral communication/logic

One course

- COMS 130 (131) or COMS 230 or PHIL 148 or PHIL 310 or COMS exemption or COMS proficiency examination

Mathematics

Two courses

- MATH 101 or MATH 104 (or exemption based on ACT or SAT score) and
- MATH 105 or MATH 106 or MATH 111 or MATH 115 or MATH 121 (141) or MATH 365 or BIOL 570

Western civilization

Two courses

- HWC 204 (114) and
- HWC 205 (115)

Non-Western culture

One course

- (chosen from the list of courses on pages 59-61)

Principal course distribution

For B.A. Degree: Three courses from each area, from different topical groups

For B.G.S. Degree: Two courses from each area, from different topical groups

(A list of approved courses in each topical group appears on pages 61-63.)

Humanities

- Historical studies (HT)
- Literature and the arts (HL)
- Philosophy and religion (HR)

Natural sciences & mathematics

- Biological sciences (NB)
- Earth sciences (NE)
- Mathematical sciences (NM)
- Physical sciences (NP)

Social sciences

- Culture and society (SC)
- Individual behavior (SI)
- Public affairs (SF)

Additional B.A. Degree Requirements

Laboratory science

- One course or a combination of a lecture and a laboratory course (4-5 hours)

Foreign language

Proficiency in one language through the fourth level:

- Elementary language I
- Intermediate language I
- Elementary language II
- Intermediate language II

Additional B.G.S. Degree Requirements

Completion of a junior/senior concentration, an approved minor, or a second major or degree.

The junior/senior concentration consists of a minimum of three junior/senior-level courses

(numbered 300 and above), totaling at least 9 credit hours, in one department outside the major.

B.S. General Education Degree Requirements

For the B.S. degree, each department sets its own general education degree requirements. See Bachelor of Science Degree Requirements, page 64, and the individual department listings for details.

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CLAS General Education Degree Requirements: B.A. and B.G.S.

English Requirement

Completion of any degree at KU, as well as successful functioning in society after graduation, requires that students develop proficiency in English composition and literature study. Students must complete

1. ENGL 101 Composition or exemption **and**
2. ENGL 102 Critical Reading and Writing or ENGL 105 Freshman Honors English **and**
3. One of the following courses:
 - ENGL 203 Topics in Reading and Writing: _____
 - ENGL 205 Freshman-Sophomore Honors Proseminar: _____
 - ENGL 209 Introduction to Fiction
 - ENGL 210 Introduction to Poetry
 - ENGL 211 Introduction to the Drama

Students must enroll immediately (their first semester at KU) in the appropriate course in English composition and must remain continuously enrolled in English courses until they have completed ENGL 102 (or ENGL 105).

In general, students should enroll in ENGL 101, with the following exceptions:

Non-Honors-Program Students:

1. Students with English scores of 31 to 33 on the ACT examination or 600 to 640 on the verbal section of the SAT should enroll in ENGL 102. They are eligible to take the Honors Placement Examination for ENGL 105, given several days before the semester begins.
2. Students with English scores of 34 or above on the ACT or 650 to 800 on the verbal section of the SAT should enroll in ENGL 105.

University Honors Program Students:

1. Students in the honors program with English scores of 27 to 30 on the ACT or 500 to 590 on the verbal section of the SAT should enroll in ENGL 102 and are eligible to take the Honors Placement Examination for ENGL 105.
2. Students in the honors program with English scores of 31 to 36 on the ACT examination or 600 to 800 on the verbal section of the SAT should enroll in ENGL 105.

Students with English AP Scores:

1. Students who score 2 on the AP Examination in English should enroll in ENGL 101 but are eligible to take the Honors Placement Examination for ENGL 105.
2. Students who score 3 on the Advanced Placement Examination in English are exempt from ENGL 101 and should enroll in ENGL 105.
3. Students who score 4 on the AP Examination in English receive 3 hours of credit and should enroll in ENGL 205, completion of which satisfies the English requirement.
4. Students who score 5 on the AP literature and composition examination in English receive 6 hours of credit and are exempt from required English courses.
5. Students who score 5 on the AP language and composition examination in English receive 3 hours of credit and are placed in ENGL 205, completion of which satisfies the English requirement.
6. Students who score 4 or 5 on the AP Examination in English are not subject to the provisions of the immediate and continuous enrollment requirement.

Students with English Transfer Credit:

1. Students who have transfer credit equivalent to ENGL 101 at other institutions should enroll in ENGL 102. Students attending summer orientation enrollment who are enrolled in such courses at other institutions should enroll in ENGL 102.
2. Students who have transfer credit equivalent to ENGL 101 and ENGL 102 at other institutions should enroll in a 200-level English course. Students attending summer orientation enrollment who are enrolled in such courses at other institutions should enroll in the next appropriate-level English course if available.

Oral Communication/Logic Requirement

Rhetorical and logical skills are considered hallmarks of educated persons. Undergraduates must establish competence in oral communication or logic. This may be done through completion of an oral communication course (COMS 130 or COMS 131 Speaker-Audi-

ence Communication or COMS 230 Fundamentals of Debate) or an applied logic course (PHIL 148 Reason and Argument or PHIL 310 Introduction to Symbolic Logic) or through exemption. Students may be exempted if they meet one of the following conditions:

1. Students with two high school courses (totaling one full credit) in speech or debate with a grade of B or higher in both are exempt. Take official high school transcripts to the Department of Communication Studies, 102 Bailey Hall. The exemption is noted on each student's transcript. Students receive a letter verifying the exemption.
2. Students who do not meet exemption criteria and who do not wish to take any of the courses listed above may choose to take the Oral Communication Exemption Examination, which consists of a written test over public speaking concepts and a public speaking performance evaluation. It is given in September in the fall semester and in February in the spring semester. No exemption examinations are scheduled during the summer session. A student wishing to take the Oral Communication Exemption Examination must register his or her **name, address, and telephone number** with the staff in the communication studies office, 102 Bailey Hall. This should be done early in the semester the examination is to be taken. A \$20 nonrefundable deposit is required to register for the examination. Students may pick up a complete description of the examination procedures and judging criteria in 102 Bailey Hall.

Mathematics Requirement

Mathematical concepts and reasoning are used in almost all areas of human discourse. Government, business, and private organizations base policy decisions on statistics and optimization. Physical and economic phenomena are described in terms of growth rates. To participate in the political arena, to function in a business or profession, and to manage personal decisions, a person is best equipped with a background in calculus, statistics, and mathematical modeling. To earn a CLAS B.A. or B.G.S. degree, students must complete

1. MATH 101 Algebra or MATH 104 Precalculus Mathematics or demonstrate eligibility for second-level mathematics courses **and**
2. **One** of the following second-level courses:
 - MATH 105 Introduction to Topics in Mathematics
 - MATH 106 Introduction to Finite Mathematics
 - MATH 111 Matrix Algebra, Probability, and Statistics
 - MATH 115 Calculus I
 - MATH 121 Calculus I
 - MATH 141 Calculus I: Honors
 - MATH 365 Elementary Statistics
 - BIOL 570 Introduction to Biostatistics

Students not prepared to take either MATH 101 or MATH 104 should enroll in MATH 002 Intermediate Mathematics. MATH 002 is a developmental course that does not count in the credit hours required for graduation. Students who are eligible (as determined by the department) to enroll in a course for which one of the approved second-level courses is prerequisite are exempt from the mathematics requirement.

See the Placement Table for Initial Enrollment in Mathematics, which lists initial enrollment in mathematics according to ACT or SAT scores. **Placement in beginning mathematics courses is strictly enforced.** Students not meeting prerequisites for a math course they are enrolled in will be administratively dropped from the course after notification. Students needing exceptions should consult the mathematics department for dates and times of placement examinations.

No later than the second semester in CLAS, all students must enroll in the appropriate course in mathematics and remain continuously enrolled in such courses until they have completed MATH 101 Algebra or MATH 104 Precalculus Mathematics or have demonstrated their eligibility to enroll in calculus through ACT or SAT scores. Students who have mathematics scores of 26 or higher on the ACT examination or 600 on the SAT examination are exempt from MATH 101.

The Timetable of Classes is online at www.timetable.ku.edu.

A Directory of Undergraduate Majors and Subfields appears on pages 3-4 of this catalog.

The Kyou portal gives Lawrence and Edwards Campus students access to many online services and resources. Visit <https://students.ku.edu>.

Placement Table for Initial Enrollment in Mathematics

KU encourages all entering students to complete four years of mathematics in high school, including Algebra I and II, Geometry, Trigonometry, and Analytic Geometry, along the lines of the Kansas Regents recommendations, page 17.

Your Math ACT/SAT Score:	Eligible to Enroll in These Mathematics Courses:
ACT: 28-36 SAT: 640-800	MATH 002, MATH 101, MATH 104, MATH 105, MATH 106, MATH 111, MATH 115, MATH 121 (a half year of trigonometry is needed for MATH 121) or MATH 365
ACT: 26-27 SAT: 600-630	MATH 002, MATH 101, MATH 104, MATH 105, MATH 106, MATH 111, MATH 115, or MATH 365
ACT: 22-25 SAT: 540-590	MATH 002, MATH 101, OR MATH 104
ACT: 16-21 SAT: 420-530	MATH 002
ACT: 0-15 SAT: 0-410	KU does not offer a mathematics course below MATH 002. Although students with these scores are not prepared, they will be permitted to enroll in MATH 002. Before enrolling in MATH 002, these students are encouraged to prepare by self-study or by completing a beginning algebra course in high school or community college.

After their initial enrollment in mathematics, students must remain continuously enrolled until they have completed MATH 101 or MATH 104.

A student should not take both MATH 101 and MATH 104. The course content of MATH 101 is repeated in MATH 104. Students add hours to their graduation requirements if they enroll in both.

Students may qualify for retroactive credit in mathematics by completing the second course in a sequence with a grade of C or higher. Students passing MATH 116, MATH 122, or MATH 142 with an A, B, or C receive credit for MATH 115 or MATH 121 after consulting the mathematics department.

Western Civilization Requirement

The Western civilization reading program deals with classical texts in Western thought from ancient times to the present. Students cover an assigned reading list, supplemented with lectures and discussion groups. Students must complete a two-course sequence. The standard sequence is HWC 204 and HWC 205. Students should have attained at least sophomore status and have completed ENGL 102 before enrolling in HWC 204 or HWC 205. Students in the University Honors Program and those with outstanding backgrounds in the humanities are encouraged to enroll in the honors sequence (HWC 114 and HWC 115).

Non-Western Culture Requirement

A non-Western culture course acquaints students with the culture, society, and values of a non-Western people, for example, from Asia, the Pacific Islands, the Middle East, or Africa. Students must complete one approved non-Western culture course.

Non-Western Culture Courses. Following is a list of courses that satisfy the non-Western culture course requirement. One course is required. Occasionally courses with varying topics fulfill the non-Western culture course requirement. See the *Timetable of Classes*, www.timetable.ku.edu, for details. These courses are coded NW.

- AAAS 103 Introduction to Africa
- AAAS 105/HIST 104 Introduction to African History
- AAAS 115 Introduction to African History, Honors
- AAAS 300 African Traditional Religion & Thought (prerequisite: AAAS 103, AAAS 105, or AAAS 106)
- AAAS 301/HAIT 200 Portrait of a Third-World Nation: Haiti
- AAAS 302 Contemporary Haiti (prerequisite: AAAS 301/HAIT 200 or consent of instructor)
- AAAS 305/HIST 300 Modern African History
- AAAS 307/HIST 307 Modern African History, Honors
- AAAS 310/W S 310 Women of Africa Today
- AAAS 315 Women & Islam

- AAAS 320 African Studies in: _____ (prerequisite: AAAS 103, AAAS 105, or consent of instructor)
- AAAS 332/ENGL 326 Introduction to African Literature (prerequisite: ENGL 102 & one 200-level ENGL course)
- AAAS 334/DANC 230/TH&F 226 Introduction to African Dance Theatre
- AAAS 335 Introduction to Southern African Literature
- AAAS 340/WS 330 Women in Contemporary African Literature
- AAAS 349/REL 350 Islam
- AAAS 351/GEOG 351 Africa's Human Geographies
- AAAS 355/TH&F 326 African Theatre & Drama
- AAAS 360/HIST 160 Introduction to West African History
- AAAS 370/LING 370 Introduction to the Languages of Africa
- AAAS 376/AAAS 676/HA 376/HA 676 West African Art
- AAAS 432/FREN 432 Francophone African Literature (prerequisite: ENGL 102 & a 200-level ENGL course)
- AAAS 433 Islamic Literature
- AAAS 434 African Women Writers
- AAAS 435 Muslim Women's Autobiography
- AAAS 445 Arab Thought & Identity
- AAAS 450/REL 450 Popular Culture in the Muslim World
- AAAS 470/LING 470 Language & Society in Africa (prerequisite: AAAS 103, AAAS 305, LING 104, or LING 106)
- AAAS 510/AMS 534/SOC 534 Comparative Racial & Ethnic Relations
- AAAS 520 African Studies in: _____ (prerequisite: junior/senior in good standing)
- AAAS 542/REL 535 The History of Islam in Africa (prerequisite: 5 hours in humanities)
- AAAS 543/LING 543 Language & Culture in Arabic-speaking Communities
- AAAS 545 Unveiling the Veil
- AAAS 552/REL 552 Classical Islamic Literatures
- AAAS 553/GEOG 553 Geography of African Development
- AAAS 555/TH&F 530 African Film & Video
- AAAS 578/HA 578 Central African Art
- AAAS 598/HIST 598 Sexuality & Gender in African History
- AAAS 600/POLS 665 Politics in Africa (prerequisite: AAAS 105, AAAS 305, or POLS 150)
- AAAS 650/REL 650 Sufism (prerequisite: AAAS 349/REL 350 or permission of instructor)
- AAAS 657/REL 657 Gender in Islam & Society (prerequisite: AAAS 349/REL 350 or permission of instructor)
- AAAS 676/HA 676 West African Art (not open to students who have taken AAAS 376/H A 376)
- AAAS 677/HA 677 African Design (prerequisite: AAAS 376, HA 376, AAAS 578, or HA 578)
- AAAS 679/ HA 679 African Expressive Culture: _____ (prerequisite: AAAS 376, HA 376, AAAS 578, or HA 578)
- AMS 534/AAAS 510/SOC 534 Comparative Racial & Ethnic Relations
- ANTH 160/ANTH 360 The Varieties of Human Experience
- ANTH 161/ANTH 361 The Third World: Anthropological Approaches
- ANTH 220 The Ethnology of Art
- ANTH 293/EALC 130/HWC 130/REL 130 Myth, Legend, & Folk Belief in East Asia
- ANTH 362 Peoples of Southeast Asia
- ANTH 364/EALC 364 Peoples of Japan & Korea
- ANTH 365/EALC 365 Japanese People Through Film
- ANTH 366/EALC 366 The Life Cycle in Japanese Culture & Literature
- ANTH 368/EALC 368 The Peoples of China
- ANTH 369 Vietnam: Identity & Conflict
- ANTH 370 Peoples & Cultures of the Pacific (prerequisite: ANTH 100, ANTH 108, ANTH 160, ANTH 308, or ANTH 360)

- ANTH 376 North American Indians
 ANTH 378 Contemporary North American Indians
 ANTH 379/LAA 334/LAA 634 Indigenous Traditions of Latin America
 ANTH 380 Peoples of South America
 ANTH 389/WS 389 The Anthropology of Gender: Female, Male, & Beyond
 ANTH 390 The Peoples of Africa
 ANTH 484 Magic, Science, & Religion
 ANTH 501 Topics in Sociocultural Anthropology: Introduction to Aboriginal Studies (*this topic only*)
 ANTH 506 Ancient American Civilizations: Mesoamerica
 ANTH 508 Ancient American Civilizations: The Central Andes
 ANTH 510 An Introduction to Southwestern Archaeology (prerequisite: ANTH 110 or ANTH 310)
 ANTH 565/EALC 565 Popular Images in Japanese Culture, Literatures, & Films
 ANTH 567 Japanese Ghosts & Demons
 CHIN 562 Modern Chinese Literature I (prerequisite: CHIN 504)
 DANC 230/AAAS 334/TH&F 226 Introduction to African Dance Theatre
 DANC 440 Introduction to Classical East Indian Dance
 EALC 105/REL 106 Living Religions of the East
 EALC 130/ANTH 293/HWC 130/REL 130 Myth, Legend, & Folk Belief in East Asia
 EALC 131 Myth, Legend, & Folk Belief in East Asia, Honors
 EALC 136 The Japanese Tradition
 EALC 220 Asian Autobiographies
 EALC 231 Introduction to: _____
 EALC 306/REL 306 Living Religions of the East
 EALC 330 Chinese Culture
 EALC 332 Asian Literature in Translation: _____
 EALC 333 Asian Literature in Translation, Honors: _____
 EALC 350 Contemporary Japan (offered only during the summer institute in Hiratsuka, Japan)
 EALC 364/ANTH 364 Peoples of Japan & Korea
 EALC 365/ANTH 365 Japanese People Through Film
 EALC 366 The Life Cycle in Japanese Culture & Literature
 EALC 368 The Peoples of China
 EALC 410 Asobi: Play in Japan
 EALC 411 Asobi: Play in Japan, Honors
 EALC 420/EALC 620 Daily Life in China from the Opium War to the Present
 EALC 508/REL 508 Religion in China
 EALC 509/REL 509 Religion in Japan
 EALC 510 Education in Japan
 EALC 520/HIST 640 Entrepreneurship in East Asia
 EALC 527/TH&F 527 Asian Theatre & Film
 EALC 530 Chinese Culture
 EALC 536 Cultural Traditions of Japan
 EALC 565 Popular Images in Japanese Culture, Literatures, & Films
 EALC 567 Japanese Ghosts & Demons
 EALC 583/HIST 583 Imperial China
 EALC 584/HIST 584 Modern China
 EALC 585/HIST 585/POLS 668 Reform in Contemporary China
 EALC 586/HIST 586 Ancient & Medieval Japan
 EALC 587/HIST 587 Early Modern Japan
 EALC 588/HIST 588 Japan 1853-1945
 EALC 589/HIST 589 Japan Since 1945
 EALC 592/HIST 592 Huns, Turks, & Mongols: The Nomad Factor in History
 EALC 593/HIST 593 Modern Korea
 EALC 595/HIST 595 Business & Industry in Japan
 EALC 596/HIST 596 Defining Japan: Marginalized Groups & the Construction of National Identity
 EALC 597/HIST 597 Japanese Theatre History
 EALC 642/HWC 524/PHIL 506 Chinese Thought (prerequisite: an Eastern Civilization course, an Asian history course, or a distribution course in philosophy)
 EALC 649 Doing Business with China: Law & Policy (prerequisite: a course on China or background in law or business)
 EALC 656/POLS 656 Governments & Politics of East Asia (prerequisite: a political science distribution course or an East Asian studies course)
 ECIV 104/ECIV 304 Eastern Civilizations
 ECIV 105/ECIV 305 Eastern Civilizations, Honors
 ENGL 326/AAAS 332 Introduction to African Literature (prerequisite: ENGL 102 & one 200-level ENGL course)
 ENGL 526 African Literature: _____
 ENGL 571 American Indian Literature: _____
 FREN 432/AAAS 432 Francophone African Literature (prerequisite: ENGL 102 & a 200-level ENGL course)
 GEOG 351/AAAS 351 Africa's Human Geographies
 GEOG 396 China's Geographies
 GEOG 553/AAAS 553 Geography of African Development
 GEOG 570 Geography of American Indians
 HIST 104/AAAS 105 Introduction to African History
 HIST 105 Introduction to Ancient Near Eastern & Greek History
 HIST 118 History of East Asia
 HIST 119 History of East Asia, Honors
 HIST 120 Colonial Latin America
 HIST 122 Colonial Latin America, Honors
 HIST 160/AAAS 360 Introduction to Western African History
 HIST 307/AAAS 307 Modern African History, Honors
 HIST 326 Native American Civilizations & Their European Conquerors
 HIST 353 Indigenous Peoples of North America
 HIST 397 From Mao to Now: China's Red Revolution
 HIST 398 Introduction to History of Japan: Anime to Zen
 HIST 399 The Samurai
 HIST 470 Popular Culture in Latin America & Africa
 HIST 569 The Middle East in the 19th & 20th Centuries
 HIST 570 The Middle East Since World War II
 HIST 583/EALC 583 Imperial China
 HIST 584/EALC 584 Modern China
 HIST 585/EALC 585/POLS 668 Reform in Contemporary China
 HIST 586/EALC 586 Ancient & Medieval Japan
 HIST 587/EALC 587 Early Modern Japan
 HIST 588/EALC 588 Japan 1853-1945
 HIST 589/EALC 589 Japan Since 1945
 HIST 592/EALC 592 Huns, Turks, & Mongols: The Nomad Factor in History
 HIST 593/EALC 593 Modern Korea
 HIST 595/EALC 595 Business & Industry in Japan
 HIST 596/EALC 596 Defining Japan: Marginalized Groups & the Construction of National Identity
 HIST 597/EALC 597 Japanese Theatre History
 HIST 598/AAAS 598 Sexuality & Gender in African History
 HIST 600 West African History
 HIST 603 History of Tibet
 HIST 604 Contemporary Greater China
 HIST 619 History of the American Indian
 HIST 622 History of the Plains Indians
 HIST 640/EALC 520 Entrepreneurship in East Asia
 HA 265 Introduction to Asian Art
 HA 266 The Visual Arts of East Asia
 HA 267 Art & Culture of Japan
 HA 268 Art & Culture of China
 HA 269 Art & Culture of Korea
 HA 369 Introduction to Korean Painting
 HA 376/AAAS 376/AAAS 676/HA 676 West African Art
 HA 467 Art & Culture of Japan, Honors
 HA 468 Art & Culture of China, Honors
 HA 469 Art & Culture of Korea, Honors
 HA 488 Chinese Painting, Honors (prerequisite: one of the following four courses: HA 150, HA 265, HA 266, ECIV 104)
 HA 578/AAAS 578 Central African Art
 HA 676/AAAS 676 West African Art (not open to students who have taken AAAS 376/H A 376)
 HA 677/AAAS 677 African Design
 HA 679/AAAS 679 African Expressive Culture: _____
 HAIT 200/AAAS 301 Portrait of a Third-World Nation: Haiti
 HWC 130/ANTH 293/EALC 130/REL 130 Myth, Legend & Folk Belief in East Asia
 HWC 524/EALC 642/PHIL 506 Chinese Thought (prerequisite: An Eastern civilization course, an Asian history course, or a distribution course in philosophy)
 JOUR 502 International Journalism
 LAA 332 Language & Society in Latin America
 LAA 333 Language & Society in Latin America, Honors
 LAA 334/LAA 634/ANTH 379 Indigenous Traditions of Latin America
 LAA 335 The Politics of Language in Latin America
 LAA 503 Race, Gender, Ethnicity, & Nationalism in Latin America
 LAA 506 Race, Gender, Ethnicity, & Nationalism in Latin America, Honors
 LA&S 202 History of North American Indian Tribes (taught at Haskell Indian Nations University)
 LING 370/AAAS 370 Introduction to the Languages of Africa
 LING 470/AAAS 470 Language & Society in Africa (prerequisite: AAAS 103, AAAS 305, LING 104, or LING 106)
 LING 543/AAAS 543 Language & Culture in Arabic-speaking Communities
 MUSC 305 Music of Latin America
 MUSC 560 Music in World Cultures
 PHIL 506/HWC 524/EALC 642 Chinese Thought (prerequisite: An Eastern civilization course, an Asian history course, or a distribution course in philosophy)
 POLS 656/EALC 656 Government & Politics of East Asia (prerequisite: POLS 150 or a East Asian Studies course)
 POLS 657 Government & Politics of Southeast Asia (prerequisite: POLS 150 or a course in Asian or Southeast Asian history)
 POLS 660 The Politics & Problems of Developing Countries (prerequisites: one of the following: POLS 652-POLS 659)
 POLS 661 Politics of the Middle East (prerequisite: 9 hours in POLS, HIST, &/or ECON including POLS 150 or POLS 170 or consent of instructor)
 POLS 665/AAAS 600 Politics in Africa (prerequisite: POLS 150, AAAS 105, or AAAS 305)
 POLS 667 Islam & Politics (prerequisite: POLS 150 or consent of instructor)

The National Survey of Student Engagement Institute at Indiana University selected KU as one of 20 U.S. universities with effective educational practices that merited further study. The final NSSE report cited the College as a major asset: "The strong liberal arts college within the university contributes to a solid, challenging general education curriculum."

For more information, see www.iub.edu/~nsse.

See the Placement Table for Initial Enrollment in Mathematics on page 59.

- POLS 668/EALC 585/HIST 585 Reform in Contemporary China
- REL 106/EALC 105 Living Religions of the East
- REL 130/ANTH 293/EALC 130/HWC 130 Myth, Legend, & Folk Belief in East Asia
- REL 306/EALC 306 Living Religions of the East
- REL 321 History of Judaism in the East
- REL 330 Native American Religions
- REL 350/AAAS 349 Islam
- REL 360 The Buddhist Tradition in Asia
- REL 450/AAAS 450 Popular Culture in the Muslim World
- REL 507 Religion in India
- REL 508/EALC 508 Religion in China
- REL 509/EALC 509 Religion in Japan
- REL 535/AAAS 542 The History of Islam in Africa (prerequisite: 5 hours in humanities)
- REL 552/AAAS 552 Classical Islamic Literatures
- REL 650/AAAS 650 Sufism (prerequisite: AAAS 349/REL 350 or permission of instructor)
- REL 657/AAAS 657 Gender in Islam & Society (prerequisite: AAAS 349/REL 350 or permission of instructor)
- REES 510 Understanding Central Asia
- SLAV 508 South Slavic Literature & Civilization
- SLAV 512 Siberia Yesterday & Today
- SOC 130 Comparative Societies
- SOC 131 Comparative Societies, Honors
- SOC 534/AAAS 510/AMS 534 Comparative Racial & Ethnic Relations
- SOC 621 Cross-cultural Sociology
- SOC 633 Traditional Rural China & the Communist Revolution
- TH&F 226/AAAS 334/DANC 230 Introduction to African Dance Theatre
- TH&F 326/AAAS 355 African Theatre & Drama
- TH&F 527/EALC 527 Asian Theatre & Film
- TH&F 530/AAAS 555 African Film & Video
- WS 310/AAAS 310 Women of Africa Today
- WS 330/AAAS 340 Women in Contemporary African Literature
- WS 389/ANTH 389 The Anthropology of Gender: Female, Male & Beyond

Principal Course Distribution Requirement

Principal courses offer introductions to the breadth of disciplines in the College. They acquaint students with the subject matter in an area, with the types of questions that are asked about that subject matter, with the knowledge that has been developed and is now basic to the area, and with the methods and standards by which claims to truth are judged.

Students must complete courses in topical groups in three major divisions (humanities, natural sciences and mathematics, and social sciences). For the B.A., three courses are required from each division, with no more than one course from any topical group. The B.G.S. requires two courses from each division, with no more than one from any topical group. To fulfill the requirement, a course must be designated as a principal course according to the codes listed below.

These are the major divisions, their topical subgroups and the codes that identify them:

Humanities	
Historical Studies	HT
Literature & the Arts	HL
Philosophy & Religion	HR
Natural Sciences & Mathematics	
Biological Sciences	NB
Earth Sciences	NE
Mathematical Sciences	NM
Physical Science	NP
Social Sciences	
Culture & Society	SC
Individual Behavior	SI
Public Affairs	SF

No course may fulfill both a principal course distribution requirement and a non-Western culture or second-level mathematics course requirement. Laboratory science courses designated as principal courses may fulfill both the laboratory science requirement and one of the distribution requirements. No free-standing laboratory course may by itself fulfill either the laboratory science requirement or a principal

course requirement. Students should begin taking principal courses early in their academic careers.

Principal Courses

The following courses satisfy the principal course distribution requirement. Prerequisites are listed in parentheses following the course. An honors equivalent of a principal course may fulfill a principal course requirement. See the list of Honors Principal Courses.

Humanities

Historical Studies (HT)

- AAAS 106 The Black Experience in the Americas
- AAAS 115 Introduction to African History, Honors
- AAAS 116 The Black Experience in the Americas, Honors
- AMS 100 Understanding America
- ANTH 110/ANTH 310 Introduction to Archaeology
- ANTH 111 Introduction to Archaeology, Honors
- CLSX 151 Archaeological Discovery
- CLSX 152 Archaeological Discovery, Honors
- EURS 302 European Culture & Society 1945 to Present: Decline of Modernity & Rise of Postmodernism
- GERM 136 The German-American Experience
- GERM 320 Border Crossings in German Culture
- HIST 101 Introduction to History: _____
- HIST 102 Introduction to History, Honors: _____
- HIST 108 Medieval History
- HIST 113 Europe 1500-1789, Honors
- HIST 114 Renaissance to Revolution: Europe 1500-1789
- HIST 115 French Revolution to the Present: Europe 1789-Present
- HIST 116 Europe 1789 to the Present, Honors
- HIST 117 Russia, an Introductory History
- HIST 121 Modern Latin America
- HIST 123 Modern Latin America, Honors
- HIST 128 History of the United States Through the Civil War
- HIST 129 History of the United States After the Civil War
- HIST 130 History of the United States Through the Civil War, Honors
- HIST 131 History of the United States After the Civil War, Honors
- HIST 320/WS 320 From Goddesses to Witches: Women in Premodern Europe
- HIST 321/WS 321 From Mystics to Feminists: Women's History in Europe 1600 to the Present
- HA 100/HA 300 Introduction to Art History
- HA 103 Introduction to Art History, Honors
- HA 150 Art History I: Ancient Through Medieval Art
- HA 161 Art History I, Honors
- HA 261 Introduction to Modern Art
- HA 265 Introduction to Asian Art
- HA 266 The Visual Arts of East Asia
- MUSC 136/MUSC 336 Masterworks of Music
- MUSC 298 Introduction to Jazz
- MUSC 310 History of Film Music
- SLAV 140 Introduction to Russian Culture
- SLAV 141 Introduction to Russian Culture, Honors
- SLAV 240 Introduction to the Languages & Peoples of Russian & East-Central Europe
- SLAV 241 Introduction to the Languages & Peoples of Russian & East-Central Europe, Honors
- WS 320/HIST 320 From Goddesses to Witches: Women in Premodern Europe
- WS 321/HIST 321 From Mystics to Feminists: Women's History in Europe 1600 to the Present

Literature & the Arts (HL)

- CLSX 148 Greek & Roman Mythology
- CLSX 149 Greek & Roman Mythology, Honors
- CLSX 230 Greek Literature & Civilization
- CLSX 240 Roman Literature & Civilization
- CLSX 330 Greek Literature & Civilization, Honors
- CLSX 340 Roman Literature & Civilization, Honors
- COMS 235 Introduction to Rhetoric & Social Influence
- DANC 330 Introduction to World Dance
- DANC 460 Dance History: Research & Reconstruction
- ECIV 104/ECIV 304 Eastern Civilization
- ECIV 105/ECIV 305 Eastern Civilization, Honors
- ENGL 309 The British Novel
- ENGL 316 Introduction to Major American Writers
- ENGL 325 Recent Popular Literature
- ENGL 387 Introduction to the English Language
- EURS 329 History of War & Peace
- EURS 430/HWC 430 European Civilization in the World Context: _____
- EURS 550 Classics of Peace Literature
- FREN 326 Introduction to French Literature (prerequisite: FREN 300)
- FREN 335 France & the French
- FREN 405 French Literature in Translation
- GERM 120 German Classics in English Translation: _____

Liberal Arts & Sciences

GERM 124 German Cinema in Context
 GERM 125 German Cinema in Context (Honors)
 GERM 132 The German Cultural Heritage
 GERM 324 Magic, Monsters, and the Occult
 GERM 328 Germany in the Arts
 GERM 332 Berlin in German Culture
 HWC 304 Masterpieces of World Literature I
 HWC 308 Masterpieces of World Literature II
 HWC 312 Masterpieces of World Literature III
 HWC 430/EURS 430 European Civilization in the World Context: _____
 (prerequisite: HWC 114 or HWC 204 & HWC 115 or HWC 205)
 ITAL 335 Italy & the Italians I
 PORT 340 Textual Analysis & Critical Reading
 PORT 540 Textual Analysis & Critical Reading
 SLAV 144 Survey of Russian Literature in Translation
 SLAV 145 Survey of Russian Literature in Translation, Honors
 SLAV 148 Introduction to Slavic Folklore
 SPAN 300 The Origins & Development of Spanish-American Culture
 (offered during summer language institute only)
 SPAN 340 Textual Analysis & Critical Reading (prerequisite: SPAN 323 or SPAN 324)
 TH&F 100 Introduction to the Theatre
 TH&F 283 Introduction to the Film Medium
 TH&F 380 American Popular Culture of _____

To continue a language studied in high school, consult a placement adviser in the appropriate language department.

For every hour of class time, KU expects students to do two hours of work outside of class.

KU students can access course information through Enroll & Pay, <https://sa.ku.edu>.

Philosophy & Religion (HR)
 AMS 290 Varieties of Religious Experience in America: Past & Present
 COMS 332 The Rhetorical Tradition (prerequisite: COMS 130, COMS 150, or COMS 230)
 EALC 105/REL 106 Living Religions of the East
 EALC 108/REL 108 Living Religions of the East, Honors
 EALC 306/REL 306 Living Religions of the East
 PHIL 140 Introduction to Philosophy
 PHIL 141 Introduction to Philosophy, Honors
 PHIL 160 Introduction to Ethics
 PHIL 161 Introduction to Ethics, Honors
 PHIL 180 Introduction to Social & Political Philosophy
 PHIL 181 Introduction to Social & Political Philosophy, Honors
 PHIL 288 Ancient Philosophy
 REL 104/REL 304 Introduction to Religion
 REL 105 Introduction to Religion, Honors
 REL 106/EALC 105 Living Religions of the East
 REL 107/REL 307 Living Religions of the West
 REL 108/EALC 108 Living Religions of the East, Honors
 REL 109 Living Religions of the West, Honors
 REL 124/REL 324 Understanding the Bible
 REL 125 Understanding the Bible, Honors
 REL 171 Religion in American Society
 REL 172 Religion in American Society, Honors
 REL 306/EALC 306 Living Religions of the East
 REL 372 Religion in American Society

Natural Sciences & Mathematics

Biological Sciences (NB)
 ANTH 104/ANTH 304 Fundamentals of Physical Anthropology
 ANTH 105 Fundamentals of Physical Anthropology, Honors
 BIOL 100 Principles of Biology (laboratory BIOL 102)
 BIOL 101 Principles of Biology, Honors (laboratory BIOL 103)
 BIOL 110 Microorganisms in Your World
 BIOL 120 Insects in Your World
 BIOL 150 Principles of Molecular & Cellular Biology, lecture & lab
 BIOL 151 Principles of Molecular & Cellular Biology, Honors, lecture & lab
 BIOL 152 Principles of Organismal Biology, lecture & lab
 BIOL 153 Principles of Organismal Biology, Honors, lecture & lab
 BIOL 200 Basic Microbiology (laboratory BIOL 203) (prerequisite: high school biology & chemistry)
 BIOL 215 Evolution & Diversity in Shaping Our World
 BIOL 400 Fundamentals of Microbiology (laboratory BIOL 402) (prerequisite: 3 semesters college chemistry)
 BIOL 401 Fundamentals of Microbiology, Honors (laboratory BIOL 402) (prerequisite: 3 semesters college chemistry)
 BIOL 612 Fundamentals of Microbiology
 EVRN 148/GEOG 148 Principles of Environmental Studies
 EVRN 149/GEOG 149 Principles of Environmental Studies, Honors
 GEOL 121 Prehistoric Life: DNA to Dinosaurs
 GEOG 148/EVRN 148 Principles of Environmental Studies
 GEOG 149/EVRN 149 Principles of Environmental Studies, Honors

Earth Sciences (NE)

ATMO 105 Introductory Meteorology (laboratory included)
 ATMO 220 Unusual Weather
 EVRN 304/GEOG 304 Environmental Conservation
 GEOG 104 Principles of Physical Geography (laboratory GEOG 105)
 GEOG 107 Principles of Physical Geography, Honors (laboratory GEOG 105)
 GEOG 304/EVRN 304 Environmental Conservation
 GEOL 101 Introduction to Geology (laboratory GEOL 103)
 GEOL 102 Introduction to Geology, Honors (laboratory GEOL 103)
 GEOL 105 History of the Earth (laboratory GEOL 103)

GEOL 106 History of the Earth, Honors (laboratory GEOL 103)
 GEOL 171 Earthquakes & Natural Disasters
 GEOL 302 Oceanography
 GEOL 351 Environmental Geology

Mathematical Sciences (NM)

EESCS 128 Introduction to Computer-based Information Systems (prerequisite: MATH 101 or MATH 104)
 EESCS 138 Introduction to Computing: _____ (prerequisite: MATH 101 or MATH 104)
 IPS 101 Elements of the Theory of Computation
 MATH 111 Matrix Algebra, Probability, & Statistics (prerequisite: MATH 101 or MATH 104)
 MATH 115 Calculus I (prerequisite: MATH 101 or MATH 104)
 MATH 121 Calculus I (prerequisite: MATH 103 or MATH 104)
 MATH 141 Calculus I, Honors (prerequisite: MATH 103 or MATH 104)
 MATH 365 Elementary Statistics (prerequisite: MATH 101, MATH 104, or MATH 111)

Physical Sciences (NP)

ASTR 191 Contemporary Astronomy (laboratory ASTR 196) (prerequisite: high school algebra & geometry)
 ASTR 391 Physical Astronomy, Honors
 CHEM 124 College Chemistry
 CHEM 125 College Chemistry (laboratory included)
 CHEM 184 Foundations of Chemistry I (laboratory included) (prerequisite: must be eligible for MATH 115)
 CHEM 185 Foundations of Chemistry I, Honors (laboratory included) (prerequisite: must be eligible for MATH 115)
 PHSX 111 Introductory Physics (prerequisite: must be eligible for MATH 104)
 PHSX 112 Concepts in Physics, Honors (prerequisite: eligible for MATH 104 & in University Honors Program or permission from instructor)
 PHSX 114 College Physics I (laboratory included) (prerequisite: MATH 104 or three & one-half years of college-preparatory math including trigonometry & a score of 25 or higher on ACT)
 PHSX 211 General Physics I (laboratory included) (prerequisite: MATH 116 or MATH 121)
 PHSX 213 General Physics I, Honors (laboratory included) (prerequisite: MATH 121 & permission from instructor)

Social Sciences

Culture & Society (SC)

AAAS 103 Introduction to Africa
 AMS 110/SOC 110 The American Peoples
 AMS 112/SOC 112 The American Peoples, Honors
 ANTH 100 General Anthropology
 ANTH 106/LING 106 Introductory Linguistics
 ANTH 107/LING 107 Introductory Linguistics, Honors
 ANTH 108/ANTH 308 Introduction to Cultural Anthropology
 ANTH 109 Introduction to Cultural Anthropology, Honors
 ANTH 320/LING 320 Language in Culture & Society
 ANTH 321/LING 321 Language in Culture & Society, Honors
 COMS 310 Introduction to Organizational Communication (prerequisite: COMS 130 or COMS 150)
 GEOG 100 World Regional Geography
 GEOG 101 World Regional Geography, Honors
 GEOG 102 Principles of Human Geography
 GEOG 103 Principles of Human Geography, Honors
 GEOG 591 Geography of Latin America
 LAA 100 Latin American Culture & Society
 LING 106/ANTH 106 Introductory Linguistics
 LING 107/ANTH 107 Introductory Linguistics, Honors
 LING 320/ANTH 320 Language in Culture & Society
 LING 321/ANTH 321 Language in Culture & Society, Honors
 REES 110 Understanding Russia & Eastern Europe
 REES 111 Understanding Russia & Eastern Europe, Honors
 SOC 104 Elements of Sociology
 SOC 105 Elements of Sociology, Honors
 SOC 110/AMS 110 The American Peoples
 SOC 112/AMS 112 The American Peoples, Honors
 SOC 132 American Society, Honors
 SOC 220 Sociology of Families
 SOC 304 Principles of Sociology
 SOC 308 Principles of Family Sociology
 WS 201 Women's Studies: An Interdisciplinary Introduction
 WS 202 Women's Studies: An Interdisciplinary Introduction, Honors

Individual Behavior (SI)

ABSC 100 Introduction to Applied Behavioral Science
 ABSC 101 Introduction to Applied Behavioral Science, Honors
 ABSC 140 Introduction to Principles of Behavior (formerly HDFL)
 ABSC 160 Introduction to Child Behavior & Development (formerly HDFL)
 COMS 244 Introduction to Interpersonal Communication Theory
 LING 110 Language & Mind
 PSYC 104 General Psychology
 PSYC 105 General Psychology, Honors
 PSYC 120 Personality
 PSYC 121 Personality, Honors

SOC 150 Self & Society
 SOC 151 Self & Society, Honors
 SOC 305 Principles of Self & Society
 SPLH 261 Survey of Communication Disorders
 SPLH 566 Language Development

Public Affairs (SF)

ABSC 150 Community Leadership (formerly HDFL)
 ABSC 151 Community Leadership, Honors (formerly HDFL)
 ABSC 310 Building Healthy Communities
 ABSC 311 Building Healthy Communities, Honors
 ECON 104 Introductory Economics (prerequisite: MATH 101 or MATH 104)
 ECON 105 Introductory Economics, Honors (prerequisite: MATH 101 or MATH 104)
 ECON 142 Principles of Microeconomics (prerequisite: MATH 101 or MATH 104)
 ECON 143 Principles of Microeconomics, Honors (prerequisite: MATH 101 or MATH 104)
 ECON 144 Principles of Macroeconomics (prerequisite: MATH 101 or MATH 104)
 ECON 145 Principles of Macroeconomics, Honors (prerequisite: MATH 101 or MATH 104)
 POLS 110 Introduction to U.S. Politics
 POLS 111 Introduction to U.S. Politics, Honors
 POLS 150 Introduction to Comparative Politics
 POLS 151 Introduction to Comparative Politics, Honors
 POLS 170 Introduction to International Politics
 POLS 171 Introduction to International Politics, Honors
 SOC 160 Social Problems & American Values
 SOC 161 Social Problems & American Values, Honors
 SOC 306 Principles of Social Problems
 SW 220 Social Work, Social Welfare, & U.S. Society

least one foreign language. To complete the B.A. degree, students must demonstrate proficiency in one foreign language through the fourth-semester level. This may be done in any of the following ways:

1. Pass the proficiency examination in one foreign language.
2. Complete a fourth-semester-level course in one foreign language.
3. Complete any foreign language course that has a fourth-semester-level course as a prerequisite.

See the chart for specific language courses.

Students whose native language is not English may be exempt from the foreign language requirement if they can show that the high school they attended taught in a language other than English. Consult College Student Academic Services after release from the Applied English Center.

Proficiency examinations are given in French, German, and Spanish. A \$20 nonrefundable registration fee is charged. No credit is awarded. Contact the Ermal Garinger Academic Resource Center, 4069 Wescoe Hall, to register.

Retroactive Credit. Some foreign language departments award retroactive KU credit for high school work in a foreign language. Some use the following policy, but others (e.g., EALC) do not. Check with the department for the appropriate policy.

Students with no prior college or university foreign language course credit are eligible for retroactive credit according to the following formula:

Three hours of retroactive credit are awarded to a student with two or three years of high school foreign language who enrolls initially at KU in a third-level language course and receives a grade of C or higher.

Six hours of retroactive credit are awarded to a student with three or four years of high school foreign language who enrolls initially at KU in a fourth-level course and receives a grade of C or higher.

Nine hours of retroactive credit are awarded to a student with four years of high school foreign language who enrolls initially at KU in a language course with a fourth-level course as a prerequisite and receives a grade of C or higher.

Additional Requirements: Bachelor of Arts Degree Only

Foreign Language Requirement

Knowledge of a language other than English has long been integral to the traditional B.A. degree. Students who wish to broaden their understanding of human complexities, communicate effectively in a global marketplace, or pursue most Ph.D. degrees are strongly encouraged to familiarize themselves with at

Liberal Arts & Sciences

Foreign Language Requirement Courses

This chart lists all the languages taught at KU that fulfill the CLAS language requirement and the four-course sequence that completes that requirement:

Lang.	Semesters	2	3	4	Lang.	Semesters	2	3	4
	1					1			
Arabic	ARAB 110 (5)	ARAB 120 (5)	ARAB 210 (3)	ARAB 220 (3)	Kiswahili	KISW 110 (5)	KISW 120 (5)	KISW 210 (3)	KISW 220 (3)
Cherokee	LA&S 110 (5) Offered infrequently through Haskell Indian Nations University	LA&S 120 (5)	LA&S 230 (5)	LA&S 240 (5)	Korean	KOR 104 (5)	KOR 108 (5)	KOR 204 (5)	KOR 208 (5)
Chinese	CHIN 104 (5)	CHIN 108 (5)	CHIN 204 (5)	CHIN 208 (5)	Latin	LAT 104 (5) or LAT 105 H (5)	LAT 108 (5) or LAT 109 H (5)	LAT 112 (3) or LAT 113 H (3)	LAT 200 (3) or LAT 201 H (3)
Croatian & Serbian	CRSB 104 (5)	CRSB 108 (5)	CRSB 204 (3)	CRSB 208 (3)	Norwegian	NORW 104 (5)	NORW 108 (5)	NORW 212 (3)	NORW 216 (3)
Czech	CZCH 104	CZCH 108 (5)	CZCH 204 (3)	CZCH 208 (3)	Polish	PLSH 104 (5)	PLSH 108 (5)	PLSH 204 (3)	PLSH 208 (3)
Danish	DANE 104 (5)	DANE 108 (5)	DANE 212 (3)	DANE 216 (3)	Portuguese	PORT 104 (5) or PORT 106 Accel (3)	PORT 108 (5) or PORT 110 Accel (3)	PORT 212 (3)	PORT 216 (3) or PORT 220 Int Port I & II(4/6)
Dutch	DTCH 104 (5)	DTCH 108 (5)	DTCH 212 (3)	DTCH 216 (3)	Russian	RUSS 104 (5)	RUSS 108 (5) or RUSS 110 (5) Elem Russ I & II	RUSS 212 (3) (nonmajors) or RUSS 204 (3) (majors)	RUSS 216 (3) (nonmajors) or RUSS 208 (3) (majors)
French	FREN 110 (5)	FREN 120 (5)	FREN 230 (3) or FREN 231 H (3)	FREN 240 (3) or FREN 241 H (3) or FREN 234 Int Fren I & II (6)	Slavic	SLAV 104 (5)	SLAV 108 (5)	SLAV 204 (3)	SLAV 208 (3)
German	GERM 104 (5) or GERM 105 H (5) or GERM 109 H (5) or [GERM 102 (3), GERM 106 (3), and GERM 110 (3); same as GERM 104 & 108]	GERM 108 (5) or GERM 109 H (5) or GERM 110 (3); same as GERM 104 & 108]	GERM 212 (3)	GERM 216 (3) or GERM 118 (11) (comb. of 108, 212, & 216)	Slovenian, Macedonian, and Slovak	are taught under this designation.			
Greek	GRK 104 (5)	GRK 108 (5)	GRK 301, 302, or 303 (3)	GRK 310 or 312 (3)	Spanish	SPAN 104 (5) or SPAN 105 Accel (3)	SPAN 108 (5) or SPAN 109 Accel (3) or SPAN 111 Elem Span I & II (5)	SPAN 212 (3) or SPAN 213 H (3)	SPAN 216 (3) or SPAN 217 H (3) or SPAN 220 Int Span I & II (6)
Haitian	HAIT 110 (3)	HAIT 120 (3)	HAIT 230 (3)	HAIT 240 (3)	Swedish	SWED 104 (5)	SWED 108 (5)	SWED 212 (3)	SWED 216 (3)
Hausa	HAUS 110 (5)	HAUS 120 (5)	HAUS 210 (3)	HAUS 220 (3)	Turkish	TURK 104 (5)	TURK 108 (5)	TURK 204 (3)	TURK 208 (3)
Hebrew	HEBR 110 (5)	HEBR 120 (5)	HEBR 210 (3)	HEBR 220 (3)	Ukrainian	UKRA 104 (5)	UKRA 108 (5)	UKRA 204 (3)	UKRA 208 (3)
Hungarian	HNGR 104 (5)	HNGR 108 (5)	HNGR 212 (3)	HNGR 216 (3)	Wolof	WOLO 110 (5)	WOLO 120 (5)	WOLO 210 (3)	WOLO 220 (3)
Italian	ITAL 110 (5)	ITAL 120 (5)	ITAL 230 (3)	ITAL 240 (3)	Yiddish	YDSH 104 (5)	YDSH 108 (5)	YDSH 212 (3)	YDSH 216 (3)
Japanese	JPN 104 (5)	JPN 108 (5)	JPN 204 (5)	JPN 208 (5)					

To qualify for retroactive credit, the student's initial university-level enrollment in the foreign language must be at KU. After completing the KU course with a grade of C or higher, the student must verify his or her high school record with the department. The student's KU transcript will show the number of credit hours awarded but no letter grade.

Check with the appropriate foreign language department for guidelines on retroactive credit. Initial enrollment in the wrong course may eliminate the opportunity for retroactive credit. Consult department sections for information on placement.

For information about the KU Edwards Campus, 12600 Quivira Rd., Overland Park, KS 66213-2402, call (from Lawrence): 864-8400 or (913) 897-8400, Web site: <http://edwardscampus.ku.edu>.

The CLAS Dean's Scholars Program offers 20 scholarships a year to high-ability U.S. ethnic minority undergraduates.

Students considering transferring to KU may see how their college-level course work will transfer by going online to www.admissions.ku.edu/requirements/credtran/find.shtml.

Laboratory Science Requirement

In fulfilling the laboratory science requirement, students become directly acquainted with the principles and practices of scientific investigation. They may repeat classical experiments to confirm established knowledge. They may prepare for ongoing research under faculty supervision. They may also discover the means to seek new knowledge on their own.

One course in the natural sciences that includes a laboratory or a natural science lecture course with an associated laboratory that constitutes 4 to 5 hours of academic credit is required. The laboratory science course (or combined lecture and laboratory courses) may fulfill both the laboratory science requirement and one of the natural science principal course distribution requirements if the course is designated a principal course. A free-standing laboratory course does not by itself fulfill either the laboratory science requirement or a principal course requirement.

Minor

Optional for Students Pursuing a B.A. Students pursuing a B.A. degree may complete an approved minor. See general guidelines for minors below and specific requirements for each minor in the appropriate department or program section of this catalog.

Additional Requirements: Bachelor of General Studies Degree Only

The Bachelor of General Studies degree may be earned with a major in many but not all of the subjects in which a B.A. degree also may be obtained. The primary distinctions between the B.G.S. degree and the B.A. degree are the foreign language requirement, which is part of the B.A. but not the B.G.S., and the junior/senior concentration or minor, which is required for the B.G.S.

Junior/Senior Concentration or Minor

Students pursuing a B.G.S. degree must complete a junior/senior concentration, an approved minor outside the major, or a second major or degree. The junior/senior concentration requires a minimum of three upper-level courses (numbered 300 or above) totaling at least 9 credit hours in one department outside the major. Requirements for the minor vary, but all must be at least 18 hours including 12 hours at the junior/senior level (numbered 300 and above). Nine of the junior/senior-level courses must be taken in residence at KU. Students completing two or more majors or degrees are exempt from this requirement. Up to three hours of credit may be used to fulfill re-

quirements for both the major and minor. Students may not be awarded a minor unless they have completed at least one course for the minor after the date the minor was approved by College Assembly. Successful completion of a minor requires a minimum KU grade-point average of 2.0 in all courses taken for the minor. For requirements for each minor, see the CLAS department section of this catalog. Minors approved as of February 2006 are

African & African-American Studies	History
Anthropology	History of Art
Applied Behavioral Science	Italian
Astronomy	Jewish Studies
Atmospheric Science	Latin American Studies
Chemistry	Leadership Studies
Classics	Linguistics
Communication Studies	Mathematics
Dance	Music
East Asian Languages & Cultures	Peace & Conflict Studies
Economics	Philosophy
English	Physics
European Studies	Religious Studies
Film	Slavic Languages & Literatures
French	Sociology
Geography	Speech-Language-Hearing
Geology	Theatre
German	Women's Studies

Bachelor of Science Degree Requirements

All general education degree, major, and supporting requirements for each B.S. program are specified by department faculty, with approval of the College Assembly. They are listed under the department or program. B.S. candidates are held to a more prescribed program with fewer electives than B.A. candidates. Students pursuing the B.S. may complete an approved minor.

Overlap Between Requirements

A course may be used to fulfill a general education degree requirement and a major or minor requirement. One course overlap is allowed between major requirements and minor requirements. No course may fulfill both a principal course distribution requirement and a non-Western culture or second-level mathematics course requirement. Laboratory science courses designated as principal courses may fulfill both the laboratory science requirement and one of the distribution requirements. No free-standing laboratory course may by itself fulfill either the laboratory science requirement or a principal course requirement.

CLAS Dean's Scholars Program

The Dean's Scholars Program offers 20 scholarships a year to high-ability U.S. ethnic minority undergraduates interested in pursuing graduate degrees. Students take a sequence of four seminars to build specific skills for graduate studies. Social activities, standardized test-taking workshops, academic and career counseling, and other services are offered. The program matches students with faculty mentors who involve them in research and guide them in graduate school preparation.

Graduation with Honors

Students may earn honors upon graduation in three ways. The student may graduate with distinction or highest distinction, earn departmental honors in the major, or complete the University Honors Program. It is possible to earn honors in one of these areas, any combination of them, or all three. The award of honors is noted on the student's transcript and in the commencement program. Distinction and highest distinction are noted on the diploma.

Graduation with Distinction or Highest Distinction

The top 10 percent of each year's graduating class is designated as graduating with distinction. Of these, the top one-third is designated as graduating with highest distinction. To be eligible, students must have completed at least 60 credit hours, graded A through F, in residence at KU. See Required Work in Residence in the General Regulations chapter of this catalog.

Graduation with Departmental Honors

Most departments and programs allow qualified majors to work toward graduation with departmental honors. Graduation with departmental honors is awarded in recognition of exceptional performance in the major, completion of a program of independent research or an alternative project, and a strong overall academic record.

In addition to the requirements of individual departments and programs (which must be approved by the College committee on undergraduate studies and advising), the College requires the following for graduation with departmental honors:

1. Candidates must declare the intention to work for departmental honors with the appropriate departmental honors coordinator(s) no later than the time of enrollment for the final undergraduate semester, but sooner if required by the department(s). Copies of the intent form should be returned to College Student Academic Services.
2. At the end of the final undergraduate semester, the candidate must have achieved an overall grade-point average of at least 3.25 and a grade-point average of at least 3.5 in the major. Both overall and major grade-point averages include work done at other institutions, as well as at KU. No minimum grade-point average is required to declare candidacy for graduation with departmental honors unless specified by the department.
3. Each candidate's departmental honors work must include independent research or an acceptable alternative project. The results of research are presented in a form appropriate to the requirements of the major department. Equivalents to the independent research component are established by approved departmental honors programs. In courses meeting the independent research requirement, the candidate must earn a grade of B or higher. Successful completion of all departmental honors requirements must be certified to the departmental honors coordinator(s) by a panel composed of at least three members of the College faculty who have read the report of the independent research and heard the oral presentation, where required.

Petitions. A department or program may petition to award graduation with departmental honors to deserving students who, for good reason, do not meet every College and departmental requirement. Send petitions to the committee on undergraduate studies and advising, College Student Academic Services.

Late Completion of Honors Requirement. Requirements for graduation with honors may be completed after the date on which certifications are requested from departments. In fact, requirements—for example, the completion of an honors thesis for which the credit hours are not needed to graduate—may be completed after a student has graduated. When a candidate finishes all requirements, departments must notify College Student Academic Services in writing.

University Honors Program

Director: Stanley Lombardo, honors@ku.edu
 Associate Director: Sandra Wick
 Associate Director: Mark Nesbitt-Daly
 Associate Director: Sue Lorenz
 Assistant Director: Sarah Crawford-Parker
 Nunemaker Center, 1506 Engel Rd.
 Lawrence, KS 66045-3845
 (785) 864-4225, www.honors.ku.edu

The Program

The University Honors Program is open to outstanding and creative students in all schools at KU, helping them to develop their full potential during their undergraduate years. The Honors Program brings talented students together in honors classes and seminars to benefit from mutual interests and association. It brings students and faculty together in a teaching and research environment that challenges both to strive for high academic achievement and standards. It coordinates merit-based scholarship opportunities for qualified students, including KU awards such as the College Scholarships, the University Scholars Program, Undergraduate Research Awards and the Dean's Scholars Program. The Honoread Council (student governance) and the Honors Ambassador Program provide opportunities for student leadership.

In general, honors classes are small, oriented to discussion, and taught by full-time members of the faculty. Most honors courses fulfill requirements and deal with introductory fundamentals and principles, but they are likely to do so in more depth. Honors courses are distinguished by the energetic, critical atmosphere generated by the students in them and the faculty who teach them.

Honors students are interested in expanding their knowledge and take a broad range of liberal arts and sciences courses. This is true of students in the professional schools (Architecture, Engineering, Fine Arts, etc.) as well as students in the College of Liberal Arts and Sciences. Honors program advisers typically recommend that students explore their interests through the broad curriculum choices KU has to offer.

A first-year, semester-long tutorial experience provides an introduction to a significant area of study in an informal setting that allows students to get to know one another and the instructor. Through this first-year experience, students also are assigned an honors adviser who serves as a mentor throughout the four years of undergraduate experience.

The program does not require a minimum number of honors courses per semester. However, students in the program quickly discover that honors courses engage the intellect, hold the interest, and create the enthusiasm for learning they expect to find at a university. Students in the professional schools are particularly encouraged to seek out honors course opportunities early, while their curricula still have breadth and flexibility.

Honors students are strongly encouraged to include study abroad programs, internships, community service, and research in their academic programs. Consult honors program staff about applying these activities toward completion of honors requirements.

Admission

Students with strong high school curricula and excellent academic records are encouraged to apply to the Honors Program. Applications are evaluated on the basis of high school curriculum, grades, an essay, activities, and standardized test scores. Applications from first- and second-year students currently attending KU, as well as incoming transfer students, are evaluated on the basis of college course work. Review of applications begins in December and continues through March. Submitting an application on or before the January 15 priority deadline assures the timeliest review. Inquiries should be sent to the KU University Honors Program, 1506 Engel Rd., Lawrence, KS 66045-3845. Further information and the online application are at www.honors.ku.edu.

Completion of the Program

Students graduate from the program by completing eight honors units and a first-year, semester-long tutorial. The eight units must be completed as follows:

- a. Six units must be fulfilled as honors or graduate-level courses.
- b. One unit must consist of one of the following experiences: study abroad, departmental honors, documented research experience, approved and documented internship experience, or approved and documented community service.

c. The eighth unit may be from either category a or b. Students must also maintain a minimum 3.25 grade-point average.

Note: Admission and completion requirements are currently under review.

Nunemaker Center

This unique building, with its modern architectural design, is the home of the Honors Program, near the Daisy Hill residence halls at 15th and Engel Road. The Honors Program is home to several faculty fellows who serve the program and bring additional faculty resources to the program to complement the full-time staff. Faculty fellows are available for advising, consultation about majors and careers, guiding research projects, and work with the Honors Council to develop programmatic initiatives.

Students are encouraged to take advantage of the spaces available at Nunemaker, including several classrooms and study areas, a kitchen, and comfortable lounges that include a fireplace, television, DVD/VCR player, and wireless Internet access. Nunemaker also serves as a gallery for undergraduate art. The center is open days and evenings. The program also maintains a satellite office on central campus in 338 Spencer Research Library. The satellite office is staffed each afternoon during the semester when classes are in session.

The University Honors Program is open to qualified students in all undergraduate degree programs at KU.

Admission and completion requirements for the University Honors Program are under review. Contact the program for current information.

The honors program office is in Nunemaker Center, 1506 Engel Rd., Lawrence, KS 66045-3845, (785) 864-4225, honors@ku.edu.

College of Liberal Arts and Sciences: Majors, Minors, and Courses

Joseph Steinmetz, Dean
Strong Hall, 1450 Jayhawk Blvd., Room 200,
Lawrence, KS 66045-7535, www.clas.ku.edu/us

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College of Liberal Arts and Sciences: Majors, Minors, and Courses

African and African-American Studies

Chair: Peter Ukpokodu, afs@ku.edu

Bailey Hall, 1440 Jayhawk Blvd., Room 9

Lawrence, KS 66045-7574

(785) 864-3054, fax: (785) 864-5330, www.ku.edu/~afs

Degrees offered: B.A., B.G.S.

The academic program focuses mainly on Africa and Afro-America, but due attention is paid to the Caribbean and Latin America. The program deepens the knowledge and enriches understanding of the history and culture of African peoples in Africa and the Americas as a necessary and desirable end in itself, but also as a useful background for professionals whose careers may involve them in these geographical and cultural areas. Essentially interdisciplinary, the major gives students a basis for interpreting the historical and contemporary experiences of African peoples in Africa and the Americas, both broadly and in relation to a particular region, historical period, or cultural manifestation. The major, with its flexibility and opportunity for fieldwork, encourages students to engage in independent study, if possible in a Black community. Most courses are also open to nonmajors.

Majors

First- and Second-year Preparation. Prospective majors must take and pass two preparatory AAAS courses before being admitted to the major. A list is available from the department. Students should complete this requirement by the sophomore year. Students major in *either* the African *or* the African-American concentration, and preparatory courses must be appropriate to the concentration.

Requirements for the B.A. or B.G.S. Major. Thirty-three hours are required, distributed as follows:

African Concentration. Students must take and pass AAAS 103 and AAAS 105 and at least two first- and second-year general education courses from two of these departments: American studies, anthropology, economics, environmental studies, geography, history, linguistics, political science, and sociology. The department may consider substitutions.

AAAS 300 African Traditional Religion and Thought 3

AAAS 305 Modern African History 3

AAAS 550 Senior Seminar in: _____ 3

AAAS 496 Field Experience (3) **or**

AAAS 690 Investigation and Conference (3) 3

Five elective AAAS courses (15 hours) numbered above 300.

B.A. majors in this concentration also must take 16 hours of an African language and any required related culture courses.

African-American Concentration. Students must take and pass AAAS 103 and AAAS 106 and at least two first- and second-year general education courses from two of the following departments: American studies, anthropology, economics, environmental studies, geography, history, linguistics, political science, and sociology. The department may consider substitutions.

AAAS 300 African Traditional Religion and Thought 3

AAAS 306 The Black Experience in the U.S. Since Emancipation .. 3

AAAS 550 Senior Seminar in: _____ 3

AAAS 496 Field Experience (3) **or**

AAAS 690 Investigation and Conference (3) 3

Five elective AAAS courses (15 hours) numbered above 300.

B.A. majors with a Haitian emphasis also must take 16 hours of Haitian language.

Note: AAAS 496, AAAS 550, and AAAS 690 may not be taken until AAAS 300, AAAS 305, and AAAS 306 (as appropriate) have been passed, and subject to other stipulations published in the catalog.

Fields of Emphasis. In each concentration, at least three elective courses and AAAS 496 and AAAS 690 must relate to the student's emphasis and be so certified by the adviser. Examples are arts and culture; language and linguistics; social, political and economic development; women; Africa and the Diaspora, Caribbean and Haitian studies. The department keeps a list of fields and courses appropriate to them.

Note: Consult with the major adviser during pre-enrollment advising each semester. Prospective majors should consult the department as early as possible. The department may require a student to take and pass a preparatory course not already taken before enrolling for a given elective. The department has guidelines for substitutions at all levels, premajor and major. Each substitution must be approved.

Fieldwork. Field experience is a junior/senior option for majors in either concentration. Fieldwork may be done anywhere in the United States or abroad. Careful arrangements must be made long in advance. Consult the department a full semester before enrollment.

Double Majors. African and African-American studies majors are encouraged to take a second major in a related or compatible field. Because the major is interdisciplinary, a second major is relatively easy to achieve in the usual period of undergraduate study.

Requirements for the Minor. For students whose programs make it attractive and feasible for them to focus on an African or American region, country, or topic, the department provides a minor in African and African-American studies. Four tracks are offered.

African-American Studies Track

AAAS 106 The Black Experience in the Americas

AAAS 306 The Black Experience in the U.S. Since Emancipation

12 additional hours of African-American (U.S.A.)-related AAAS courses at the 300 level or above

African and African-American Studies Track

AAAS 105/HIST 104 Introduction to African History

AAAS 106 The Black Experience in the Americas

12 additional hours of AAAS courses at the 300 level or above

African Studies Track

Option 1: Advanced African Language Study

3 credit hours (one course): AAAS 103 Introduction to Africa **or**

AAAS 105/HIST 104 Introduction to African History

Four courses in Arabic (ARAB 310 Advanced Arabic I, ARAB 320

Advanced Arabic II, ARAB 401 Readings in Arabic, & ARAB

402 Readings in Arabic II) **or** Kiswahili (KISW 310 Advanced

Kiswahili I, KISW 320 Advanced Kiswahili II, KISW 401 Readings

in Kiswahili I, KISW 402 Readings in Kiswahili II) **or** Hausa

(HAUS 310 Advanced Hausa I, HAUS 320 Advanced Hausa II, HAUS

401 Readings in Hausa I, HAUS 402 Readings in Hausa II) **or** Wolof

(WOLO 310 Advanced Wolof I, WOLO 320 Advanced Wolof II, WOLO

401 Readings in Wolof I, WOLO 402

Readings in Wolof II) **or** two advanced language courses (AAAS

Photo, page 68: A graduate teaching assistant and his French class take advantage of a warm autumn day to meet outside on the lawn.

502 or AAAS 503) & a Language & Society course (LING 370/AAAS 370 Introduction to the Languages of Africa, LING 470/AAAS 470 Language & Society in Africa). Other languages may apply with consent of faculty.

3 credit hours (one course) selected from AAAS 550 Senior Seminar, AAAS 695 Honors Project, AAAS 690 Investigation & Conference, AAAS 496 Field Experience

Option 2: African Societies and Civilizations

3 credit hours (one course) AAAS 103 or AAAS 105/HIST 104
12 credit hours (four courses) selected from AAAS 300 African Traditional Religion & Thought, ANTH 390 The Peoples of Africa, AAAS 545 Unveiling the Veil, WS 310/AAAS 310 Women of Africa Today, WS 330/AAAS 340 Women in Contemporary African Literature, AAAS 315 Women & Islam, WS 560/AAAS 560 Race, Gender & Post-Colonial Discourses, AAAS 320 African Studies in Development of Islamic Tradition, AAAS 532/REL 532 Studies in Islam, AAAS 542/REL 535 The History of Islam in Africa, HIST 300/AAAS 305 Modern African History, HIST 598/AAAS 598 Sexuality & Gender in African History, HIST 599/AAAS 590 The Rise & Fall of Apartheid, HIST 600/AAAS 520 African Studies in West African History, JOUR 500 Topics in Journalism: International Journalism

3 credit hours (one course) selected from AAAS 550, AAAS 695, AAAS 690, AAAS 496

Option 3: African Arts and Literature

3 credit hours (one course) AAAS 103 or AAAS 105/HIST 104
12 credit hours (four courses) from TH&F 226/DANC 230 Introduction to African Dance Theatre, TH&F 302 Undergraduate Seminar/AAAS 320 African Studies in African Film & Theatre, TH&F 326/AAAS 355 African Theatre & Drama, TH&F 530/AAAS 555 African Film & Video, ENGL 324 Contemporary Authors:/AAAS 320 African Studies in the Novel in Africa, ENGL 326/AAAS 332 Introduction to African Literature, ENGL 526 African Literature, ENGL 479 The Literature of/AAAS 433 Islamic Literature, ENGL 479 The Literature of/AAAS 434 African Women Writers, FREN 432/AAAS 432 Francophone African Literature, HA 376/AAAS 376 West African Art, HA 578/AAAS 578 Central African Art

3 credit hours (one course) selected from AAAS 550, AAAS 695, AAAS 690, AAAS 496

Option 4: Political Economy of Health and Development in Africa

3 credit hours (one course) AAAS 103 or AAAS 105/HIST 104
12 credit hours (four courses) from ANTH 542 Biology of Human Nutrition, ANTH 543 Anthropology of Food & Nutrition, ANTH 650 Human Reproduction: Biology & Behavior, ANTH 762 Introduction to Human Growth & Development, ANTH 461 Medical Anthropology, ANTH 540 Demographic Anthropology, ANTH 783 Doing Ethnography, ANTH 684 Anthropology & the Health Sciences, ECON 587 Economic Development of Africa, GEOG 553/AAAS 553 Geography of African Development, POLS 665/AAAS 600 Politics in Africa, IBUS 301 Business Culture & Society: Africa, POLS 667 Islam & Politics, HIST 599/AAAS 590 The Rise & Fall of Apartheid, AAAS 680 Introduction to Modern Africa, ANTH 545/AAAS 554 Contemporary Health Issues in Africa

3 credit hours (one course) selected from AAAS 550, AAAS 695, AAAS 690, AAAS 496

Option 5: People and Space in Africa

3 credit hours (one course) AAAS 103 or AAAS 105/HIST 104
12 credit hours (four courses) from GEOG 350/AAAS 350 Physical Geography of Africa, GEOG 351/AAAS 351 Africa's Human Geographies, GEOG 553/AAAS 553 Geography of African Development, ANTH 390 The Peoples of Africa, ANTH 549 Human Paleontology: Fossil Apes to Australopithecus, ANTH 501 Topics in Sociocultural Anthropology/AAAS 520 African Studies in Kongo Trans-Atlantic, HIST 599/AAAS 590 The Rise & Fall of Apartheid, AAAS 560/WS 560 Race, Gender & Postcolonial Discourses, GEOG 550/AAAS 551/EVRN 420 Topics in Environmental Issues in Africa

3 credit hours (one course) selected from AAAS 550, AAAS 695, AAAS 690, AAAS 496

Option 6: Student-designed Cluster

3 credit hours (one course) AAAS 103 or AAAS 105/HIST 104
12 credit hours (four courses) created from a student's academic concentration

3 credit hours (one course) selected from AAAS 550, AAAS 695, AAAS 690, AAAS 496

Haitian Studies Track

HAIT 110, HAIT 120, HAIT 230, HAIT 240

12 additional hours of the language or related courses at the 300 level or above

Honors. For graduation with honors, a student must maintain a minimum overall grade-point average of 3.25 and of 3.5 in the major and must complete 3 additional hours by enrolling in AAAS 695. AAAS 695 is evaluated

by a committee composed of the instructor plus two other faculty members approved by the chair. An affirmative recommendation by this committee is essential to graduation with honors, provided that the other requirements have been met. A student who plans to graduate with honors must file a declaration of intent form with the departmental honors coordinator, preferably during his or her junior year, but no later than at enrollment for the final undergraduate semester.

Study Abroad

The department encourages majors in the African studies concentration to take advantage of opportunities to spend a semester or an academic year in Africa. Consult the department and the Office of Study Abroad.

● African and African-American Studies Courses

AAAS 103 Introduction to Africa (3). NW,SC S/W An introduction to the interdisciplinary study of African cultures and societies focusing on contemporary life on the continent. Topics to be covered include the geography, history, politics, and economics of the continent, as well as the religion, languages and literatures, music, and the arts. The interdisciplinary perspective will provide students with a sound basis for understanding contemporary African societies. LEC

AAAS 105 Introduction to African History (3). NW H/W An introduction to important historical developments in Africa, mainly south of the Sahara. Topics will include pre-history, empires, kingdoms and city-states, the slave trade, southern Africa, partition and colonialism, the independence era, military and civilian governments, and liberation movements. Approaches will include literature, the visual arts, politics, economics, and geography. (Same as HIST 104.) LEC

AAAS 106 The Black Experience in the Americas (3). HT H/W An interdisciplinary study of the history of the African peoples of the New World, relating their cultures and institutions to the African background and to their peculiar New World experiences up to and including the nineteenth century. While the main emphasis will be on the U.S.A., attention will also be paid to the Caribbean and Latin America. Approaches will include demography, economics, social and political developments, literature, and music. LEC

AAAS 115 Introduction to African History, Honors (3). NW H An intensive version of AAAS 105. Open only to students on Dean's Honor Roll or enrolled in Honors Program, or consent of instructor. LEC

AAAS 116 The Black Experience in the Americas, Honors (3). HT H An intensive version of AAAS 106. Open only to students on Dean's Honor Roll or enrolled in Honors Program, or consent of instructor. LEC

AAAS 300 African Traditional Religion and Thought (3). NW H/W A study of African traditional religious beliefs, systems and practices and how these have conditioned spiritual, moral and social values, attitudes, social relationships and institutions, art, literature and music. Topics covered include the African world-view, concepts of birth, life, marriage, death and reincarnation; the concurrent practice or monotheism, polytheism and the cult of the ancestors; and the extent of relevance to Black societies in the New World. Prerequisite: AAAS 103 or AAAS 105 or AAAS 106 or consent of instructor. LEC

AAAS 301 Portrait of a Third-World Nation: Haiti (3). NW H/W Case study of Third-World problems and aspirations through the first Black nation to win independence from colonialism. Topics include: profile of the Third World; Caribbean diversity; the Columbian exchange; piracy; slavery and plantocracy; Revolution and the burden of freedom; U.S. occupation; Papa Doc, Baby Doc, and the Tontons Macoute; Liberation theology; peasant life; government and corruption; poverty and hunger; morality of foreign aid; Voodoo; folk medicine. No knowledge of Haitian or French required. Students may not receive credit for both HAIT 200 and AAAS 301. LEC

AAAS 302 Contemporary Haiti (3). NW Detailed analysis of recent Haitian history. The focus will include interactions between religion, social structure, politics, economics and international relations. Prerequisite: AAAS 301/HAIT 200, or consent of instructor. LEC

AAAS 305 Modern African History (3). NW H/W A survey of social, political, and economic developments during the colonial era and independence struggles, followed by a closer examination of the contemporary experience in a selected country or region. (Same as HIST 300.) LEC

AAAS 306 The Black Experience in the U.S. Since Emancipation (3). H An interdisciplinary study of the history and culture of Black people in America from Reconstruction to the present. Topics covered include an analysis of Reconstruction, Black leaders, organizations and movements, the Harlem Renaissance, migration, and race relations. Demographic variables covered include socio-economic class, education, political persuasion, and influence by avant-garde cultural changes. LEC

African and African-American studies majors are encouraged to take a second major in a related field.

KU Info, (785) 864-3506, www.kuinfo.ku.edu, answers questions about events and activities and makes referrals.

Visit KU online at www.ku.edu.

AAAS 307 Modern African History, Honors (3). NW H An intensive version of AAAS 305. A survey of social, political and economic developments during the colonial era and independence struggles, followed by a closer examination of the contemporary experience in a selected country or region. Open only to students admitted to the University Honors Program, or by consent of the instructor. (Same as HIST 307.) LEC

AAAS 310 Women of Africa Today (3). NW H An analysis of the position and status of the African woman today as she grapples with factors peculiar to her environment, history, and culture in a global perspective. The course will examine specific and relevant factors which impact on her current status in her society and how she compares with her older counterpart. Comparative study will be made of different African cultures. (Same as WS 310.) LEC

AAAS 315 Women and Islam (3). NW H/W Addresses the widely-held stereotype of Muslim women as pawns in a patriarchal socio-religious context. Investigating the Muslim cultures of certain regions, the course will examine the manner in which indigenous culture was influenced by the introduction of Islam and the historical impact of Islam on women's social roles. Focusing principally on social change in the 20th century, the course will consider how socio-political change affects religious roles where religion is integrally involved in daily life. To what extent is individualism valued, and how are the pressures of late 20th century life mediated? The course will draw on texts from history, sociology, and literature. LEC

AAAS 320 African Studies In: _____ (3). NW H/W Lecture and discussion course in African area of current interest. May be repeated for credit toward the major. Prerequisite: AAAS 103 or AAAS 105 or consent of instructor. LEC

AAAS 323 African-American Studies In: _____ (3). H/W Lecture and discussion course in African-American area of current interest. May be repeated for credit toward the major. Prerequisite: AAAS 106 or consent of instructor. LEC

AAAS 330 Black Leadership (3). H/W The course focuses on the concept of leadership and on Black leadership in the United States. An in-depth analysis of selected case studies of Black leaders both historical and contemporary. Some attention will be given to the dispersion of Africans into the Americas and the leadership that emerged, conditioned both by environmental factors and the psychology engendered by the system of slavery. Selected successful Black leaders will be invited to visit the class from time to time. (Same as AMS 340.) LEC

AAAS 332 Introduction to African Literature (3). NW H/W Reading, analysis, and discussion of contemporary fiction, poetry, and drama from sub-Saharan Africa. Brief attention will be paid to historical development and to traditional literature. (Same as ENGL 326.) Prerequisite: ENGL 102 and one 200-level English course or consent of instructor. LEC

AAAS 333 Introduction to Caribbean Literature (3). H/W Reading, analysis and discussion of fiction, poetry, and drama from the Caribbean, including a small selection of Spanish, French, and Dutch Antillean works in translation. (Same as ENGL 339.) Prerequisite: ENGL 102 and one 200-level English course or consent of instructor. LEC

AAAS 334 Introduction to African Dance Theatre (2). NW U Introduction to the general techniques of non-verbal theatrical conventions in African cultures. Practical training in movement vocabulary supplemented by lectures on the "text" of performance. There will be an end of semester "studio performance." (Same as TH&F 226 and DANC 230.) LEC

AAAS 335 Introduction to Southern African Literature (3). NW H/W This course deals with the literatures of the southern Africa region, including works by both women and men from South Africa, Botswana, Lesotho, Zaire, Zimbabwe, and Mauritius. Course includes close attention to the political and cultural bases of social conflict in the region. LEC

AAAS 340 Women in Contemporary African Literature (3). NW H A critical study of issues and questions raised about women in contemporary African literature and implications for the larger society through the analysis of theme, language, characterization, roles and functions of women in selected works. (Same as WS 330.) LEC

AAAS 349 Islam (3). NW H/W Islam's Origins, the prophet Muhammed, the Holy Koran, religious symbols and moral mandates, and historical developments. (Same as REL 350.) LEC

AAAS 350 Physical Geography of Africa (3). N This course is a survey of the basic physical features of the African continent including structure and relief, rivers and lakes, soils and mineral resources. It includes characteristics and processes of African climates, and the ecology of Africa's four major biomes: tropical rain forest, savanna, steppe, and desert. Climatic and environmental variations of the past, emergence of humankind, and development of pastoral and farming systems are discussed. Contemporary environmental concerns also include deforestation and desertification, the impacts of drought, methods for monitoring African environments, and Africa's prospects in a 21st century suffering from global warming. (Same as GEOG 350.) LEC

AAAS 351 Africa's Human Geographies (3). NW S/W An introduction to historical, cultural, social, political, and economic issues in Africa from a geographic perspective. The course begins with the historical geography of humanity in Africa, from ancient times through to the present. Other topics include cultural dynamics, demography, health, rural development, urbanization, gender issues, and political

geography. Case studies from Eastern and Southern Africa will be used to illustrate major themes. (Same as GEOG 351.) LEC

AAAS 355 African Theatre and Drama (3). NW H/W A study of the origin and development of continental African theatre and its affinity to the Levant. Traditional, colonial and contemporary dramatic theories and experiments will be examined in play selections. (Same as TH&F 326.) LEC

AAAS 356 African-American Theatre and Drama (3). H A historical study of Black theatre in the U.S.A. from its African genesis to its contemporary Americanness. Epochs in African-American dramaturgy will be critically examined. (Same as TH&F 327.) LEC

AAAS 360 Introduction to West African History (3). NW H This course treats West African history through the first part of the twentieth century. The student is provided with a perspective on the major historical patterns that gave rise to West Africa's development as an integral part of world history. Special attention is paid to anthropological, geographical, and technological developments that influenced West African political and socioeconomic changes. (Same as HIST 160.) LEC

AAAS 370 Introduction to the Languages of Africa (3). NW H/W A survey of the indigenous languages of Africa from a linguistic perspective, covering the main language families and their geographic distribution, and focusing on the features and structure of the more widely spoken and representative languages in each family (e.g., Fula, Hausa, Maninka, Swahili, Yoruba). (Same as LING 370.) LEC

AAAS 376 West African Art (3). NW H/W Introduction to the rich visual art traditions of West Africa. Emphasis is given to the major art-producing cultures of the Western Sudan and the Guinea Coast, including the prehistoric cultures of Nigeria, Mali, and Ghana. The diverse forms of figure sculptures and masquerade performance and meanings of these arts in historical and cultural contexts are examined. (Same as HA 376.) LEC

AAAS 388 The Black Woman (3). S/W An interdisciplinary study of the role of Black women in our society, from the African background through the plantation experience to the present. Prerequisite: One course in the social sciences and/or humanities or consent of instructor. LEC

AAAS 400 Readings in: _____ (3). U Investigation of a subject selected by a student in consultation with a departmental adviser and conducted under supervision. Individual reports and conferences. Open only to students who have completed at least six credit hours in African and African-American studies. Cannot be repeated for credit. Prerequisite: Consent of instructor. LEC

AAAS 420 Intercultural Communication: The Afro-American (3). H/W An examination of the barriers to effective communication between Black Americans and non-Black Americans. (Same as COMS 447.) Prerequisite: Skills in basic composition essential. LEC

AAAS 432 Francophone African Literature (3). NW H/W This course is an introduction to 20th century African literature written in French, covering selected works by major authors from both sub-Saharan Africa and the Maghreb. Attention will be given primarily to the novel, although some poetry will also be read. Topics and themes include negritude, African identity in the wake of colonialism, Islam, and women's writing. Classes will be conducted in English. Students may read the texts in French or in translation. (Same as FREN 432.) Prerequisite: ENGL 102 and a 200-level English course. LEC

AAAS 433 Islamic Literature (3). NW H/W Contemporary literature that is set in the context of Muslim cultures provides for an examination of Muslim identity on its own terms. This course focuses on the literary examination of works by Muslim authors from Egypt, Sudan, Senegal, Guinea, Mali, Morocco, Nigeria, and Niger. From the perspective of both male and female authors, the issue of what it means to be a Muslim is considered through fictional accounts set in contemporary contexts. Some works will be read in translation from Arabic or French; others are written originally in English. Cultures considered in this course vary widely in their origins and customs, which allows for a focus on the one pervasive element they share in common: Islam as it shapes people's lives. LEC

AAAS 434 African Women Writers (3). NW H/W This course focuses on four decades of African women's writing from all regions of the continent. Works included deal with a wide variety of issues relevant to African women, as well as universal issues of conceptions of gender roles, and the struggle to attain personal rights and freedom within traditional cultural frameworks. LEC

AAAS 435 Muslim Women's Autobiography (3). NW N/W This course examines the realities of Muslim women's experiences as conveyed in their own voices. Works are drawn from all over the world, from Africa and the Middle East to Europe and the U.S. and cover the nineteenth and twentieth centuries. LEC

AAAS 440 The Afro-American Family: A Psychological Approach (3). S The examination of the structure, values, and behavior patterns of the contemporary African-American family as influenced by African cultures and kinship systems and the institution of slavery in association with other factors. Social and psychological forces that have enhanced or blocked family survival, stability, and advancement will be explored. The orientation of Black family life will emphasize its strengths, weaknesses, adaptations, strong kinship bonds, and equalitarian family roles. (Same as PSYC 440.) LEC

A one-semester program in Haiti under the direction of Goshen College is approved for credit to qualified KU students.

Students can check out videos of foreign-language movies, cultural programs, and documentaries at the Ermal Garinger Academic Resource Center, 4069 Wescoe Hall.

AAAS 445 Arab Thought and Identity (3). NW N/W The intention of this course is to present a comprehensive portrait and a deeper understanding of the Arab society and its cultural background. We will focus on the debate that is still raging about traditionalism versus modernity, and authenticity (assala) and specificity (Khususiyya) versus westernization. Moreover, we will discuss the question of Arab identity which manifests itself through a sense of belonging and diversity of affiliations, and relies as well on shared culture and its variations, and shared place in history and common experiences. It is designed for any student interested in this ethnic group. LEC

AAAS 450 Popular Culture in the Muslim World (3). NW H A study of pop songs, television, comics, and other idioms of popular culture from different parts of the Muslim world, with attention to Muslims' sense of humor, tragedy, aesthetics, and pertinent issues of the day. (Same as REL 450.) LEC

AAAS 460 Topics and Problems in African and African-American Studies (1-3). H/W Individual investigation of special topics in African and African-American studies. May not be repeated for credit toward the major. Prerequisite: Six hours in African and African-American studies or consent of instructor. IND

AAAS 470 Language and Society in Africa (3). NW H/W Examines issues and problems associated with language use in sub-Saharan Africa from a sociological perspective. Topics covered include an overview of the types of languages spoken on the continent: indigenous languages, colonial languages, pidgins and creoles, and Arabic as a religious language; problems associated with the politics of literacy and language planning, writing and standardization of indigenous languages; and the cultural and ideological dilemmas of language choice. (Same as LING 470.) Prerequisite: AAAS 103, AAAS 305, LING 104, or LING 106, or consent of instructor. LEC

AAAS 496 Field Experience (3). H/W A supervised placement in practical situations where students actively participate in organized work within the community, to be completed with an acceptable paper. The course may be taken in the United States, Caribbean, or Africa to meet the B.A. degree requirement in African and African-American Studies. Open only to junior and senior majors or by consent of the department. FLD

AAAS 501 Regional History: ____ (3). H/W A survey of the major political, social, economic and intellectual trends in a region of Africa or the Americas. Prerequisite: Five hours of distribution courses in history. LEC

AAAS 502 Directed Language Study: ____ (5). U Study of an African language at Elementary I and Elementary II levels under individual supervision and with the aid of self-instructional material. Open to juniors and seniors in good standing and graduate students only and with permission of the department. May be repeated for up to 10 credit hours. Cannot be used to fulfill BA foreign language requirement. IND

AAAS 503 Directed Language Study: ____ (3). U Study of an African language at Intermediate I and Intermediate II levels under individual supervision and with the aid of self-instructional material. Open to juniors and seniors in good standing and graduate students only and with permission of the department. May be repeated for up to 6 credit hours. Cannot be used to fulfill BA foreign language requirement. IND

AAAS 510 Comparative Racial and Ethnic Relations (3). NW S An examination of constructions of race and ethnicity around the world. Emphasis is on the social, political, historical, cultural and economic factors that lead to the creation of ethnic and racial identities, ethnic conflict and accommodation, ethnic movements, and ethnic political organization. Racial and ethnic relations in the U.S. are compared with other countries. Major focus is placed on ethnicity in Africa, Asia, Latin America, the Caribbean, and/or the Middle East. (Same as AMS 534 and SOC 534.) LEC

AAAS 511 The Civil Rights Movement (3). H An examination of the Civil Rights Movement in American History. Emphasis is placed on the activities of major Civil Rights organizations, Civil Rights legislation and its impact on American life, and conflicts between integrationist and separatist forces in politics, economics, education, culture and race relations in the United States. LEC

AAAS 512 African and Western Cosmologies (3). H/W Ancient and modern Western world views will be compared to African world views, with special attention paid to the way these are supported in the underpinnings of sociocultural institutions. Prerequisite: A course in African Studies and a course in the philosophy of science or consent of instructor. LEC

AAAS 520 African Studies in: ____ (3). NW H/W Upper level lecture and discussion courses in African area of current interest and/or taking advantage of faculty resources in topics relevant to the major. May be repeated for credit toward the major. Prerequisite: Junior/Senior in good standing. LEC

AAAS 522 African and African-American Religion: ____ (3). H/W Historical development, systematic ideas and rites of selected periods, cultural settings, and movements. Prerequisite: Five hours of distribution courses in the humanities or AAAS 512 and consent of instructor. LEC

AAAS 523 African-American Studies in: ____ (3). H/W Upper level lecture and discussion courses in African-American area of current interest and/or taking advantage of faculty resources in topics relevant to the major. May be repeated for credit toward the major. Prerequisite: Junior/Senior in good standing. LEC

AAAS 525 Social History of Black Aging in America (3). H/W The purpose of this course is to provide a comprehensive historical examination of American society's changing attitudes and responses to aging and older adults, with emphasis on the Black aged. Beginning with the African background where older adults were highly valued, the course explores the impact of slavery, the industrial Revolution, urbanization and the development of the youth-oriented culture prevalent in the United States today. Subsequently, the course focuses on the emergence of twentieth century social gerontological problems and the role of the modern Black movements, public agencies, and private organizations in addressing the issues. Film, essays, drama, and/or fiction are utilized to illustrate the cultural attitudes of each historical period. Prerequisite: AAAS 103 or AAAS 105 or AAAS 106 or a course in American history, or consent of instructor. LEC

AAAS 527 Popular Culture in Africa (3). S/W This course examines multiple expressions of popular culture in contemporary Africa, focusing on the aesthetics of forms such as music, theatre, dress, street art, and popular literary genres, as well as the social themes they deal with and the societies that produce them. The approach will be based on a critical reconsideration of notions such as traditional versus modern culture, elite versus folk art, westernization, and cultural hybridity, in order to find better ways of discussing the cultural vibrancy of everyday life in contemporary Africa. LEC

AAAS 532 Studies in Islam (3). H Study of religious thought, practice, and institutions of Islam with an emphasis on the examination of primary documents. (Same as REL 532.) LEC

AAAS 534 The Rhetoric of Black Americans (3). H/W A study of the rhetoric of Black Americans, from their earliest protest efforts to the contemporary scene, with the focus on the methods and themes employed to alter their status in American society. (Same as COMS 551.) Prerequisite: COMS 130. Skills in basic composition essential. LEC

AAAS 542 The History of Islam in Africa (3). NW H/W A study of the history and institutions of Islam in Africa. Emphasis will be placed on the impact of Islam on African traditional religions and African civilizations in general; the historiographical traditions of Islam in Africa. (Same as REL 535.) Prerequisite: Five hours of distribution courses in the humanities. LEC

AAAS 543 Language and Culture in Arabic-speaking Communities (3). NW H The course examines the links between language structure, patterns of use, language choice, and language attitudes in the diglossic and bi-lingual Arabic-speaking communities. It also explores language as a reflector and creator of Arab culture (e.g. linguistic encoding of politeness, the Quranic text as the spoken and written word, the role of tropes in Arabic rhetoric). The topics for discussion range from the micro-level language choice to the macro-level issues of national language policies and planning within the domain of government and education across the Arab world. (Same as LING 543.) LEC

AAAS 545 Unveiling the Veil (3). NW H This course seeks to unveil a complex cultural practice that has been misconstrued by many scholars. It explores the versatility of the meaning of the veil. It examines the ways in which the veil has become a symbol of privacy, cultural identity, religious assertion, resistance and liberation, besides being a symbol of constraint, oppression, backwardness, and sexual mystery. LEC

AAAS 550 Senior Seminar in: ____ (3). H/W Small discussion groups, each designed to consider a specific, clearly defined topic, using an interdisciplinary approach and requiring the demonstration of a comprehensive knowledge of the fundamentals in the field as appropriate to the topic. Class discussion based on student presentations. Prerequisite: Senior majors; special departmental permission for other seniors. LEC

AAAS 551 Environmental Issues in Africa (3). S Acquaints students with the complexities of debates on environmental problems in Sub-Saharan Africa. Topics addressed may include deforestation, desert expansion, wildlife conservation, soil erosion, climate change, coral reef destruction, water resources development, mangrove preservation, and the environmental effects of war, industrialization, and urbanization. Class presentations and projects synthesize the perspectives of both human and physical geography. (Same as GEOG 550.) Prerequisite: GEOG 104 or permission of instructor. LEC

AAAS 552 Classical Islamic Literature (3). NW H An examination of major developments in classical Islamic literature in the Middle East and beyond, with attention to the poetic and prose works (in translation) that emerged from them. (Same as REL 552.) LEC

AAAS 553 Geography of African Development (3). NW S Acquaints students with the values and social parameters of African agricultural and pastoral practice. Topics include customary land rights, African perspectives on the natural world, gender issues in African agriculture, and the urbanization of African cultures. The course also contrasts African views with those of Western development practitioners and donor agencies. Case studies from different countries are used to highlight the continent's regional differences. (Same as GEOG 553.) LEC

AAAS 554 Contemporary Health Issues in Africa (3). S The course examines health and nutrition in African communities, using the methods of biological and medical anthropology. Fundamental to the approach taken in the course is the understanding that the health of

human groups depends on interactions between biological and cultural phenomena in a particular ecological context. One topic will be selected per semester to examine in detail the full array of epidemiological factors contributing to patterns of specific diseases. AIDS, childhood diseases, and reproductive health of African women are among possible topics. Course material will be selected from scholarly and medical publications, as well as coverage in the popular media. The use of a variety of sources will enhance understanding of the biological and cultural issues involved, and will help students identify possible bias and misinformation in popular coverage of events such as famine or epidemic in African settings. (Same as ANTH 545.) Prerequisite: An introductory course in either Anthropology or African Studies. LEC

AAAS 555 African Film and Video (3). NW H A critical study of Africa and its peoples as depicted in films and videos. The aesthetic, cultural, economic, political, historical, and ideological aspects of African films and videos will be examined. (Same as TH&F 530.) LEC

AAAS 560 Race, Gender, and Post-Colonial Discourses (3). H An examination of the ways in which the concept of race, gender, and post-colonialism frame African literatures from the Caribbean, North America, and the continent itself. The course will focus on these discourses grounding them in critical frameworks within which they can be contextually analyzed and evaluated, at the same time examining their impact in literacy praxis and theory. (Same as WS 560.) LEC

AAAS 574 Slavery in the New World (3). H/W Slavery, slave culture, and the slave trade in the U.S., Latin America, and the Caribbean will be examined comparatively. Attention will also be given to African cultures, the effects of the slave trade on Africa, and the effects of African cultures on institutions in the New World. (Same as HIST 574.) LEC

AAAS 578 Central African Art (3). NW H/W Introduction to the arts and cultures of Central Africa. Emphasis is given to the major art-producing cultures of the Equatorial forest and the Southern Savanna regions of Cameroon, Gabon, Congo, Zaire, and Angola. The historical and cultural contexts for the visual arts associated with centralized leadership and non-centralized societies are explored. (Same as HA 578.) LEC

AAAS 584 Black American Literature (3). H A study of the literature written by Black Americans from the pre-Civil War period to the present. Emphasis upon specific historical periods in the development of Black literature as well as on a critical analysis of major autobiographical, poetic, and fictional works. LEC

AAAS 585 Race and the American Theatre (3). U The representation(s) of race in significant texts and performance styles in American theatre analyzed according to political ideologies, dramatic movements and the impact of these factors on the representation of the "other" in the theatre. (Same as AMS 529 and TH&F 529.) LEC

AAAS 590 The Rise and Fall of Apartheid (3). H This course will deal with the last fifty years of South African history during which apartheid came to be formulated, supported, and perpetuated, and the forces that were responsible for its disintegration by 1990. Reference will also be made to the transformation process since April 1994. (Same as HIST 599.) LEC

AAAS 598 Sexuality and Gender in African History (3). NW H An examination of the history of sexuality and gender in Africa with a focus on the 19th and 20th centuries. Major issues and methods in the historical scholarship on gender and sexuality will be covered. Topics of historical analysis include life histories, rites of passage, courtship, marriage, reproduction, education, masculinities, homosexuality, colonial control, and changing gender relations. Prior course work in African history is suggested. Graduate students will complete an additional project in consultation with the instructor. (Same as HIST 598.) LEC

AAAS 600 Politics in Africa (3). NW S A survey of politics in Africa, focused on the countries of sub-Saharan or Black Africa. The course includes a historical discussion of precolonial Africa, colonization and the creation of contemporary states, and the politics of independence, before examining contemporary political systems and the forces influencing patterns of politics on the continent. (Same as POLS 665.) Prerequisite: POLS 150 or AAAS 105 or AAAS 305 or consent of instructor. LEC

AAAS 602 U.S. Policy—Post-Colonial World (3). S Focuses on 20th century U.S. political, military, and economic relations with Africa, Asia, Latin America, and the Middle East. Examines the impact of the international environment, ideology, the foreign policy bureaucracy, Congress, domestic factors, and individual leaders on U.S. policy choices. Evaluation of policy implementation and outcomes. (Same as POLS 682.) Prerequisite: Nine hours of political science, including POLS 170/POLS 171 and POLS 150/POLS 151, or permission of instructor. LEC

AAAS 650 Sufism (3). NW H A survey of developments in Sufi (Islamic Mystical) thought, poetry, and ritual throughout Muslim history and across the Muslim world. (Same as REL 650.) Prerequisite: AAAS 349/REL 350 or permission of instructor. LEC

AAAS 657 Gender in Islam and Society (3). NW H An investigation of the relationship between Islam, and gender roles and status in religious texts (Quran and Hadith) and in societies across the Muslim world, past and present. (Same as REL 657.) Prerequisite: AAAS 349/REL 350 or permission of instructor. LEC

AAAS 676 West African Art (3). NW H/W Introduction to the rich visual art traditions of West Africa. Emphasis is given to the major

art-producing cultures of the Western Sudan and the Guinea Coast, including the archaeological cultures of Nigeria, Mali, and Ghana. The diverse forms of figure sculptures and masquerade performance and meanings of these arts in historical and cultural contexts are examined. This course requires more intensive work than AAAS 376 and is open to upper division and graduate students only. Not open to students who have taken AAAS 376/HA 376. (Same as HA 676.) LEC

AAAS 677 African Design (3). NW H/W A survey of sub-Saharan African media, emphasizing textiles, ceramics, metal and bead work, the artist's techniques, working methods and apprenticeship, and historical and contemporary cultural contexts, including the influence of tourism and the international art market on artistic production and style. Open to juniors, seniors, and graduate students only. (Same as HA 677.) Prerequisite: AAAS 376 or HA 376, or AAAS 578 or HA 578, or an introductory course in art history at the college level, or consent of instructor. LEC

AAAS 679 African Expressive Culture: ____ (3). NW H/W An in-depth examination of an artistic tradition shared by a number of African cultures. Discussion includes historical development related to style, use and meaning and other relevant issues. Open to juniors, seniors, and graduate students only. (Same as HA 679.) Prerequisite: AAAS 376 or HA 376, or AAAS 578 or HA 578, or an introductory course in art history at the college level, or consent of instructor. LEC

AAAS 680 Introduction to Modern Africa (3). H/W An interdisciplinary approach to cross-cultural understanding of Africa's place in the modern world. Specific emphasis will be given to the role of Africa in world history, African cultures, modern African history, and problems of development and nation building in Africa. Prerequisite: Consent of instructor. LEC

AAAS 690 Investigation and Conference (1-3). H/W Individual and supervised readings in selected areas of African and African-American studies which will be an investigation of a subject selected by the student with the advice and direction of an instructor. Individual reports and conferences. Prerequisite: Seniors and consent of department. IND

AAAS 695 Honors Project in: ____ (3). H An individual research project in African-American or African studies under the direction of a specialist in the area of the student's interest, the results of the project to be presented in written form and to be defended before a committee of three faculty members as provided for under the requirements for Honors. Majors only and permission of instructor. IND

AAAS 700 Africa in World Politics (3).

AAAS 715 Seminar in African Art (3).

AAAS 774 Topics in Literature of Africa and the African Diaspora: ____ (3).

● Arabic Courses

ARAB 110 Elementary Arabic I (5). U Five hours of class per week. Basic level of oral fluency and aural comprehension. Vocabulary acquisition, pronunciation, grammar, and writing. Reading of simple texts. Not open to native speakers of Arabic. LEC

ARAB 120 Elementary Arabic II (5). U Five hours of class per week. A continuation of ARAB 110. Readings in cultural texts. Prerequisite: ARAB 110. LEC

ARAB 210 Intermediate Arabic I (3). U Three hours of class conducted in Arabic. Intermediate oral proficiency and aural comprehension. Systematic review of grammar. Writing skills beyond the basic level. Introduction to modern Arabic texts and discussion in Arabic. Prerequisite: ARAB 120. LEC

ARAB 220 Intermediate Arabic II (3). U Three hours of class conducted in Arabic. Continuation of ARAB 210. Discussion in Arabic of texts studied. Prerequisite: ARAB 210. LEC

ARAB 310 Advanced Arabic (3). U A practical Arabic language course involving advanced study of the grammar, reading of texts on a variety of subjects, conversation, and composition. Taught in Arabic. Designed for students who have had two or more years of Arabic study. Open to native speakers. Prerequisite: ARAB 220 or consent of instructor. LEC

ARAB 320 Advanced Arabic II (3). A continuation of ARAB 310. Prerequisite: Satisfactory completion of ARAB 310 or consent of instructor. LEC

ARAB 401 Readings in Arabic (3). U Designed for native and near-native speakers, this course involves reading newspapers and other publications in the language intended for native speakers, conversation, oral presentations, and advanced grammar. Prerequisite: Native or near-native speaker proficiency or consent of instructor. LEC

ARAB 402 Readings in Arabic II (3). U Continuation of ARAB 401. LEC

● Haitian Courses

HAIT 110 Elementary Haitian I (3). U Beginning course in the vernacular language of Haiti, Martinique, Guadeloupe and other areas of the Caribbean and the Indian Ocean. Conversational approach, with essentials of grammar. Reading of basic texts. Special attention to folk culture as expressed by language. No previous knowledge of another foreign language is required. LEC

**The Department
of African and
African-American
Studies offers
African language
courses.**

**American studies
graduates have
used their studies
to prepare
themselves for
careers in
government, law,
medicine, politics,
journalism,
business, and
education.**

HAIT 120 Elementary Haitian II (3). U Continuation of HAIT 110, with further readings in Haitian literature. Prerequisite: HAIT 110 or consent of instructor. LEC

HAIT 200 Portrait of a Third-World Nation: Haiti (3). NW H/W Case study of Third-World problems and aspirations through the first Black nation to win independence from colonialism. Topics include: profile of the Third World; Caribbean diversity; the Columbian exchange; piracy; slavery and plantocracy; Revolution and the burden of freedom; U.S. occupation; Papa Doc, Baby Doc, and the Tontons Macoute; Liberation theology; peasant life; government and corruption; poverty and hunger; morality of foreign aid; Voodoo; folk medicine. No knowledge of Haitian or French required. Students may not receive credit for both HAIT 200 and AAAS 301. LEC

HAIT 230 Intermediate Haitian I (3). U Continued practice in conversation and composition; intensive and extensive readings from contemporary press, short story, poetry, and folk tales. Prerequisite: HAIT 120 or consent of instructor. LEC

HAIT 240 Intermediate Haitian II (3). U Continuation of HAIT 230, with additional readings from theatre, novel, and historical texts. Prerequisite: HAIT 230 or consent of instructor. LEC

HAIT 300 Contemporary Haiti (3). H Detailed analysis of recent Haitian history. The focus will include interactions between religion, social structure, politics, economics and international relations. Prerequisite: AAAS 301/HAIT 200, or consent of instructor. LEC

HAIT 350 Advanced Haitian I (3). U Course objective is a sophisticated command of understanding, speaking, reading, and writing Haitian. Texts include newspapers and other Haitian publications as well as spoken material produced essentially for native speakers. Conversation and oral presentations. Keeping of personal journal in Haitian. LEC

HAIT 360 Advanced Haitian II (3). U Continuation of HAIT 350, plus advanced readings from Haitian authors such as Carrie Paultre, Frank Etienne, Lyonel Desmarattes, and Michel-Rolph Trouillot. LEC

HAIT 497 Directed Studies in Haitian (1-15). U May be taken more than once, total credit not to exceed fifteen hours. Material not covered by course work, and/or in field of student's special interest. Conferences. Course taken for one hour of credit may not be used to fulfill College's humanities distribution requirement. Prerequisite: Six hours of Haitian Creole and consent of instructor. IND

HAIT 500 Directed Studies in Haitian Language and Literature (1-15). U Advanced work in either language or literature or both. May be taken more than once, total credit not to exceed fifteen hours. Conferences. As a three-credit-hour course, it may count toward a major in African and African-American studies. Prerequisite: Four semesters of Haitian Creole or equivalent and consent of instructor. IND

HAIT 501 Directed Studies in Haitian Culture (1-15). U Advanced work in Haitian culture. May be taken more than once, total credit not to exceed fifteen hours. Conferences. As a three-credit-hour course, it may count toward a major in African and African-American studies. No knowledge of Haitian or French is required. Prerequisite: AAAS 301 or HAIT 200, or consent of instructor. IND

HAIT 700 Investigation and Conference (1-6).

● **Hausa Courses**

HAUS 110 Elementary Hausa I (5). U Five hours of class per week. Basic level of oral fluency and aural comprehension. Vocabulary acquisition, pronunciation, grammar, and writing. Reading of simple texts. Not open to native speakers of Hausa. LEC

HAUS 120 Elementary Hausa II (5). U Five hours of class per week. A continuation of HAUS 110. Readings in cultural texts. Prerequisite: HAUS 110. LEC

HAUS 210 Intermediate Hausa I (3). U Three hours of class conducted in Hausa. Intermediate oral proficiency and aural comprehension. Systematic review of grammar. Writing skills beyond the basic level. Introduction to modern Hausa texts and discussion in Hausa. Prerequisite: HAUS 120. LEC

HAUS 220 Intermediate Hausa II (3). U Three hours of class conducted in Hausa. Continuation of HAUS 210. Discussion in Hausa of texts studied. Prerequisite: HAUS 210. LEC

HAUS 310 Advanced Hausa I (3). U A practical Hausa language course involving advanced study of the grammar, reading of texts on a variety of subjects, conversation, and composition. Taught in Hausa. Designed for students who have had two or more years of Hausa study. Open to native speakers. Prerequisite: HAUS 220 or consent of instructor. LEC

HAUS 320 Advanced Hausa II (3). U A continuation of HAUS 310. Prerequisite: Satisfactory completion of HAUS 310 or consent of instructor. LEC

HAUS 401 Readings in Hausa I (3). U Designed for native and near-native speakers, this course involves reading newspapers and other publications in the language intended for native speakers, conversation, oral presentation, and advanced grammar. Prerequisite: Native or near-native speaker proficiency or consent of instructor. LEC

HAUS 402 Readings in Hausa II (3). U Continuation of HAUS 401. LEC

● **KiSwahili Courses**

KISW 110 Elementary KiSwahili I (5). U Five hours of class per week. Basic level of oral fluency and aural comprehension. Vocabulary acquisition, pronunciation, grammar, and writing. Reading of simple texts. Not open to native speakers of KiSwahili. LEC

KISW 120 Elementary KiSwahili II (5). U Five hours of class per week. A continuation of KISW 110. Readings in cultural texts. Prerequisite: KISW 110. LEC

KISW 210 Intermediate KiSwahili I (3). U Three hours of class conducted in KiSwahili. Intermediate oral proficiency and aural comprehension. Systematic review of grammar. Writing skills beyond the basic level. Introduction to modern KiSwahili texts and discussion in KiSwahili. Prerequisite: KISW 120. LEC

KISW 220 Intermediate KiSwahili II (3). U Three hours of class conducted in KiSwahili. Continuation of KISW 210. Discussion in KiSwahili of texts studied. Prerequisite: KISW 210. LEC

KISW 310 Advanced KiSwahili I (3). U A practical KiSwahili language course involving advanced study of the grammar, reading of texts on a variety of subjects, conversation, and composition. Taught in KiSwahili. Designed for students who have had two or more years of KiSwahili study. Open to native speakers. Prerequisite: KISW 220 or consent of instructor. LEC

KISW 320 Advanced KiSwahili II (3). U A continuation of KISW 310. Prerequisite: Satisfactory completion of KISW 310 or consent of instructor. LEC

KISW 401 Readings in KiSwahili I (3). U Designed for native and near-native speakers, this course involves reading newspapers and other publications in the language intended for native speakers, conversation, oral presentations, and advanced grammar. Prerequisite: Native or near-native speaker proficiency or consent of instructor. LEC

KISW 402 Readings in KiSwahili II (3). U Continuation of KISW 401. LEC

KISW 410 Advanced KiSwahili (3). U The course objective is a sophisticated command of speaking, listening, reading, and writing in KiSwahili. Texts used include newspapers and other KiSwahili publications not expressly for language learners, and spoken material intended for native speakers is introduced. Conversation and oral presentations. Advanced grammar. Available for elective credit in the major. Prerequisite: Native, near-native or second language competence or satisfactory completion of fourth level language proficiency. LEC

● **Wolof Courses**

WOLO 110 Elementary Wolof I (5). H Five hours of class per week. Basic level of oral fluency and aural comprehension. Vocabulary acquisition, pronunciation, grammar, and writing. Reading of simple texts. Not open to native speakers of Wolof. LEC

WOLO 120 Elementary Wolof II (5). U Five hours of class per week. A continuation of WOLO 110. Readings in cultural texts. Prerequisite: WOLO 110. LEC

WOLO 210 Intermediate Wolof I (3). U Three hours of class conducted in Wolof. Intermediate oral proficiency and aural comprehension. Systematic review of grammar. Writing skills beyond the basic level. Introduction to modern Wolof texts and discussion in Wolof. Prerequisite: WOLO 120. LEC

WOLO 220 Intermediate Wolof II (3). U Three hours of class conducted in Wolof. Continuation of WOLO 210. Discussion in Wolof of texts studied. Prerequisite: WOLO 210. LEC

WOLO 310 Advanced Wolof I (3). U A practical Wolof language course involving advanced study of the grammar, reading of texts on a variety of subjects, conversation, and composition. Taught in Wolof. Designed for students who have had two or more years of Wolof study. Open to native speakers. Prerequisite: WOLO 220 or consent of instructor. LEC

WOLO 320 Advanced Wolof II (3). U A continuation of WOLO 310. Prerequisite: Satisfactory completion of WOLO 310 or consent of instructor. LEC

WOLO 401 Readings in Wolof I (3). U Designed for native and near-native speakers, this course involves reading newspapers and other publications in the language intended for native speakers, conversation, oral presentations, and advanced grammar. Prerequisite: Native or near-native speaker proficiency or consent of instructor. LEC

WOLO 402 Readings in Wolof II (3). U Continuation of WOLO 401. LEC

WOLO 420 Advanced Wolof II (3). U Aspects of Wolof literature are examined at an advanced level, including differences between oral and written narrative, oral and poetic modes, varieties of registers as determined by gender and socio-economic level, and the effect of medium on literary style. Prerequisite: Native, near-native or second language competence, or satisfactory completion of fourth level language proficiency. LEC

African-American Studies

See African and African-American Studies.

African Studies

See African and African-American Studies.

Allied Health (Pre-Allied Health)

See the School of Allied Health chapter of this catalog.

American Studies

Director: Cheryl Lester
Bailey Hall, 1440 Jayhawk Blvd., Room 213
Lawrence, KS 66045-7574
(785) 864-4011, www.ku.edu/~amerst

Degrees offered: B.A., B.G.S., M.A., Ph.D.

American studies at KU offers the opportunity for the interdisciplinary examination of American life and culture. It gives students an understanding of some of the different ways in which American life and culture have been studied. The distinctive feature of the major, other than its primary focus on American society, is its curricular flexibility, which allows students to develop portions of the program by selecting courses from academic departments throughout the university. This flexibility also enables majors to fulfill the College distribution requirements in the humanities and social sciences with courses that can simultaneously meet requirements for the major.

Majors

First- and Second-year Preparation. Students planning to major in American studies should take AMS 100, AMS 110, and either AMS 330, AMS 332, or AMS 344 during their first and second years.

Requirements for the B.A. or B.G.S. Major. Thirty hours are required, distributed as follows:

American Studies Core Courses (9 hours)

- | | |
|---|---|
| AMS 100 Understanding America (3) or | |
| AMS 110 The American Peoples (same as SOC 110) (3) or | |
| AMS 112 The American Peoples, Honors (same as SOC 112) (3) | 3 |
| AMS 330 American Society (same as SOC 330) (3) or | |
| SOC 132 American Society, Honors (3) or | |
| AMS 332 The United States in Global Context (same as SOC 332) (3) or | |
| AMS 344 Case Study in American Studies: _____ (3) | 3 |

Approaches to Understanding Society and Culture (6 hours). Two courses that explore, in whole or in part, methodological or theoretical approaches and/or issues used in disciplines relevant to American studies. The two courses used to fulfill this requirement normally would be from two different disciplines or departments. Examples of courses that fulfill this requirement include ANTH 108, ANTH 109, ANTH 160, ANTH 162, ANTH 308, ANTH 320, ECON 104, ECON 105, ENGL 308, ENGL 508, GEOG 102, GEOG 103, HIST 396, HIST 696, HA 100, HA 103, HA 300, LING 320, PHIL 180, PHIL 181, POLS 301, POLS 302, PSYC 310, PSYC 490, SOC 500, SOC 510, TH&F 283, WS 202.

Special Emphasis Concentration (9 hours). Three courses that focus on or cohere around a common theme, interest, or subject; at least 6 hours must be at the junior/senior level. To design a concentration, students must consult with and receive approval from an American studies faculty adviser; some examples are listed below. Students are not restricted to these but, with the approval of an American studies faculty adviser, may propose others.

American Studies Concentrations (in addition to those in traditional disciplines such as history, political science, or literature):
Communities; Contemporary America; Family and Childhood; Gender; Indigenous Peoples; Law and Legal Institutions; Politics; Popular Culture; Race and Ethnicity; Religion; Rural/Urban America; Visual Culture; Work, Labor, and the Economy

Advanced Courses (At least 6 hours)

- | | |
|---|---|
| AMS 550 Introduction to Current Issues and Research in American Studies | 3 |
|---|---|

One of the following courses in which students produce a thesis based on independent research, a paper based on public service, or an equivalent project in another medium: 3
AMS 551 Research Project in American Studies (3) **or**
AMS 552 Public Service in American Studies (3) **or**
AMS 553 Honors in American Studies (3)

Double Majors. American studies majors are encouraged to take a second major in a related field, such as history, English, political science, sociology, anthropology, religious studies, African and African-American studies, economics, or art history. Because the major is interdisciplinary, a second major is relatively easy to achieve during the usual four years of undergraduate study.

Honors. An honors program allows seniors with overall grade-point averages of 3.25 to do independent work under faculty direction. Enrollment in AMS 553 is required. By special arrangement, students may design independent study programs to meet concentration requirements. Graduation with honors is awarded to students who meet College honors requirements.

Career Opportunities

Graduates have prepared for occupations in federal, state, and local government, law, medicine, politics, journalism, business, and education. Many have entered graduate work in American studies or disciplines in their concentrations. See an adviser for a list of American studies courses that may meet teacher licensure requirements in history and social sciences.

● American Studies Courses

AMS 100 Understanding America (3). HT H An introduction to the interdisciplinary field of American Studies. Students read, listen to, and discuss texts or materials that explore or represent different ways of understanding American culture and society in historical perspective. Not open to students who have taken AMS 101. LEC

AMS 101 Understanding America, Honors (3). HT H An introduction to the interdisciplinary field of American Studies. Students read, view, listen to, and discuss texts or materials that explore or represent different ways of understanding American culture and society in historical perspective. Not open to students who have taken AMS 100. Prerequisite: Membership in the University Honors Program or approval by the American Studies Program. LEC

AMS 110 The American Peoples (3). SC S An introduction to the backgrounds, cultures, and institutions of diverse groups in American society. Analysis of American diversity through the study of factors such as ethnicity, race, religion, gender, sexual orientation, region, and age. Not open to students who have taken AMS 112 or SOC 112. (Same as SOC 110.) LEC

AMS 112 The American Peoples, Honors (3). SC S An introduction to the backgrounds, cultures, and institutions of diverse groups in American society. Analysis of American diversity through the study of factors such as ethnicity, race, religion, gender, sexual orientation, region, and age. Not open to students who have taken AMS 110 or SOC 110. (Same as SOC 112.) Prerequisite: Membership in the University Honors Program or approval by the American Studies Program. LEC

AMS 250 Study Abroad Topics in: _____ (1-6). This course is designed for the study of special topics in American studies. Credit for course work must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. The syllabus/reading list for the course must be approved in advance by the American Studies undergraduate committee. LEC

AMS 290 Religion in American Society (3). HR H A broad introduction to religion in American culture. This class emphasizes the well-established religions with large followings (viz. Judaism, Catholicism, Eastern Orthodoxy, and Protestantism). Some attention is also given to other religions active in America. Other topics covered include the relationship of church and state, religion in ethnic and racial minority groups, and women and religion. Not open to students who have taken REL 172 or REL 372. (Same as REL 171.) LEC

AMS 292 Topics and Problems on: _____ (3). H Interdisciplinary study of different aspects of the American experience in different semesters. LEC

AMS 300 Understanding America (3). H Approaches to comprehension of our national experience through examination of its reflection in history, the arts, media, and the eyes of foreign observers. Counts as a principal course in the humanities or the social sciences. LEC

AMS 310 American Culture, 1600-1876 (3). H An examination of the major historical shifts, trends, and conflicts that have shaped the

multicultural nature of life in the United States from the initial European settlements to 1876. In addition to tracing developments in literature, architecture, drama, music, and the visual arts, this course will investigate patterns and changes in the popular, domestic, and material culture of everyday life in America. (Same as HIST 310.) Prerequisite: AMS 100 or AMS 110 or HIST 128. LEC

AMS 312 American Culture, 1877 to the Present (3). H An examination of the major historical shifts, trends, and conflicts that have shaped the multicultural nature of life in the United States from 1877 to the present. In addition to tracing developments in literature, architecture, drama, music, and the visual arts, this course will investigate patterns and changes in the popular, domestic, and material culture of everyday life in America. (Same as HIST 312.) Prerequisite: AMS 100 or AMS 110 or HIST 129. LEC

AMS 330 American Society (3). H The social structure and organization of American society with special reference to recent social changes. (Same as SOC 330.) Prerequisite: An introductory course in sociology or American studies. LEC

AMS 332 The United States in Global Context (3). S An examination of the historical, social, cultural, economic, religious, and political context of the development of the United States and its role as a global power. The primary focus will be on the dynamic role of the United States in a global context—in other words, on assessing the impact of broad external forces on the United States and the global impact of American policies and practices. Among the issues the course will examine are the role of race, ethnicity, migration, technology, communications and media, popular culture, language, domestic, and transnational organizations, as well as economic, political, religious, and educational institutions. (Same as SOC 332.) LEC

AMS 340 Black Leadership (3). H/W The course focuses on the concept of leadership and on black leadership in the United States; an in-depth analysis of selected case studies on black leaders, both historical and contemporary. Some attention will be given to the dispersion of Africans into the Americas and the leadership that emerged, conditioned both by environmental factors and the psychology engendered by the system of slavery. Selected successful black leaders will be invited to visit the class from time to time. (Same as AAAS 330.) LEC

AMS 344 Case Study in American Studies: ____ (3). H This course examines in depth a specific American studies or theme. LEC

AMS 390 Geography of the United States and Canada (3). S A study of the different physical, economic, and cultural settings in the United States and Canada which form the basis for the various forms of livelihood. Emphasis on the United States. (Same as GEOG 390.) Prerequisite: An introductory geography course, or background in United States or Canadian history, social science, or culture, or consent of instructor. LEC

AMS 494 Topics in: ____ (1-4). H Interdisciplinary study of selected aspects of American society or culture or of the American experience. LEC

AMS 510 History of American Women—Colonial Times to 1870 (3). H A survey of women's roles as housewives, mothers, consumers, workers, and citizens in pre-industrial, commercial, and early industrial America. (Same as HIST 530 and WS 510.) LEC

AMS 511 History of American Women—1870 to Present (3). H A survey of women's history in the United States that will include radical and reform movements, the impact of war and depression, professionalization, immigration, women's work and the biographies of leading figures in women's history. (Same as HIST 531 and WS 511.) LEC

AMS 512 History of Women and Work in Comparative Perspective (3). H This course explores the connection between historical changes in the labor process and the occupational choices available to women in different countries. Through discussion and analyses of texts, students will evaluate the construction of a gendered division of work as shaped over time by economic, cultural, and political forces. The chronological and geographical focus may vary depending on the instructor. (Same as HIST 532 and WS 512.) LEC

AMS 522 American Racial and Ethnic Relations (3). S Analysis of the basic sociological concepts that apply to majority-minority relations; with special emphasis on racial and ethnic interaction in the United States. (Same as SOC 522.) Prerequisite: A distribution course in sociology or American studies. LEC

AMS 529 Race and the American Theatre (3). U The representation(s) of race in significant texts and performance styles in American theatre analyzed according to: political ideologies and dramatic movements and the impact of these factors on the representation of the "other" in the theatre. (Same as AAAS 585 and TH&F 529.) LEC

AMS 534 Comparative Racial and Ethnic Relations (3). NW S An examination of constructions of race and ethnicity around the world. Emphasis is on the social, political, historical, cultural and economic factors that lead to the creation of ethnic and racial identities, ethnic conflict and accommodation, ethnic movements, and ethnic political organization. Racial and ethnic relations in the U.S. are compared with other countries. Major focus is placed on ethnicity in Africa, Asia, Latin America, the Caribbean, and/or the Middle East. (Same as AAAS 510 and SOC 534.) LEC

AMS 536 Ethnicity in the United States: ____ (3). S An examination of the history, sociology, and culture of U.S. ethnic categories (e.g., American Indians, Latinos, Asian Americans, Jewish Americans, Irish Americans). The specific group studied varies from semester to semester. Course may be repeated for credit. (Same as SOC 536.) Prerequisite: A principal course in American Studies, Sociology, or Anthropology, or permission of instructor. LEC

AMS 550 Introduction to Current Issues and Research in American Studies (3). H A seminar exploring current issues, research methods, and theory in American studies. This course covers the history of the American studies movement, as well as current research methods and theories through which knowledge is produced about "America" and "American" peoples. Normally to be taken in the junior year. Open to graduate students only with the consent of the American Studies Program. LEC

AMS 551 Research Project in American Studies (3). H Independent research on a selected topic under the direction of a faculty member. Students write an original research paper or complete an equivalent project in another medium, grounded in primary as well as secondary sources. Prerequisite: AMS 550 or consent of instructor. RSH

AMS 552 Public Service in American Studies (3). H Independent public service in a selected area undertaken in consultation with and under the direction of a faculty member. Students produce a final written project on the experience that integrates the public service experience and academic materials, or complete an equivalent project in another medium. Prerequisite: AMS 550 or consent of instructor. FLD

AMS 553 Honors in American Studies (3). H Honor equivalent of AMS 551. May be taken twice for credit. Three hours of AMS 553 may be substituted for a course in an appropriate category in the American Studies major. Prerequisite: AMS 550, eligibility for departmental honors, or consent of instructor. RSH

AMS 576 Cultural Geography of the United States (3). S Distributions of major culture elements including folk architecture, religion, dialect, foodways, and political behavior are systematically studied from a predominantly historical perspective. These discussions are followed by a survey of the major culture regions in America. Although not absolutely necessary, familiarity with concepts treated in any of the following courses would be helpful: AMS 100, AMS 110, ANTH 108, ANTH 308, GEOG 102, or GEOG 390. (Same as GEOG 576.) LEC

AMS 579 Geography of American Foodways (3). An interdisciplinary approach to food that explores the diversity of eating habits across the United States and the role of food as an indicator of cultural identity and change. Current regional and ethnic food consumption patterns are stressed. Topics include multiculturalism and regional identity, the symbiotic relationship between restaurant food and home cooking, the recent interest in farmers' markets and organic foods, and the importance of the food industry and the popular press in setting trends. (Same as GEOG 579.) LEC

AMS 580 American Art (3). H A survey of American painting, sculpture, and architecture from colonial to recent times. (Same as HA 570.) Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

AMS 629 Sociology of Sport (3). S Examination of organized sport as a social institution and its relation to other social institutions (e.g., political, economic, educational, and religious), with special emphasis on American society. Analysis of the social correlates of sports participation and a consideration of the role of sport in social change. (Same as SOC 629.) Prerequisite: A principal course in American studies or sociology, or consent of instructor. LEC

AMS 650 Jazz and American Culture (3). H This course considers cultural and social histories of jazz, from the 1920s through the present day, as sites for exploring ideological struggles over such fields as race, class, gender, sexuality, democracy, capitalism, freedom, community, Americanness, and globalization in the U.S. The course will explore such questions as the following: What music was called jazz at what times and places? What did it mean to whom? Who played it? Who wrote about it? Who listened to it? Who danced to it? Who policed it? Who produced it? Who used it to rebel? Who used it to survive? What did all of these practices mean to participants? The course will examine struggles over social meanings in the U.S. through a study of jazz performance, labor, representation, marketing, consumption, censorship, and historiography. Prerequisite: A course in American studies, American history, or consent of instructor. LEC

AMS 677 The American Novel in the Nineteenth Century (3). H A study of the novels (and possibly short fiction) of such authors as Brown, Cooper, Hawthorne, Melville, Twain, Howells, James, Norris, and Stowe. Emphasis on a critical analysis of individual works, the historical development of the novel, and the critical theory of each author. (Same as ENGL 677.) LEC

AMS 678 The Modern American Novel (3). H A study of representative American novelists of the twentieth century. Emphasis on a critical analysis of individual novels as well as on the historical development of the modern novel. (Same as ENGL 678.) LEC

AMS 694 Directed Readings (1-4). H Consent of instructor is required. IND

Anthropology is the study of past and present human societies.

Anthropologists at KU have a wide range of interests — from human genetic variation to Japanese ghosts and demons.

Each student is responsible for conforming with regulations in this catalog and any others that may be required.

AMS 696 Studies in: ____ (1-4). H Interdisciplinary study of different aspects of the American experience in different semesters. LEC

AMS 700 Introduction to Museum Exhibits (3).

AMS 714 Conservation Principles and Practices (3).

AMS 720 The Nature of Museums (3).

AMS 725 Museum Studies Workshop: ____ (1-3).

AMS 730 Principles and Practices of Museum Collection Management (3).

AMS 731 Museum Management (3).

AMS 737 Music in America (3).

AMS 767 Gerontology Proseminar (3).

AMS 787 Field Work (1-12).

AMS 797 Introduction to Museum Public Education (3).

AMS 799 American Studies Museum Apprenticeship (1-6).

Anthropology

Chair: Jim Mielke, kuanthro@ku.edu

Fraser Hall, 1415 Jayhawk Blvd., Room 622

Lawrence, KS 66045-7556

(785) 864-4103, fax: (785) 864-5224, www.ku.edu/~kuanth

Degrees offered: B.A., B.G.S., M.A., Ph.D.

Course work in anthropology is designed for students majoring in anthropology as part of a liberal education, for students majoring in anthropology as preparation for postgraduate professional training, and for students in other areas who wish to do supplementary work in anthropology.

Courses for Nonmajors

Most courses are open to nonmajors and, depending on the course, can be used to meet College principal course distribution requirements in natural sciences, social sciences, or humanities. The department offers many courses that fulfill the non-Western culture requirement. ANTH 100 General Anthropology and ANTH 160/ANTH 360 The Varieties of Human Experience are recommended for students interested in anthropology who do not intend to major in it.

Majors

First- and Second-year Preparation. Prospective majors are advised to take required courses in part 1 before the junior year. Further requirements should be completed in consultation with a faculty adviser and depend in part on the student's individual interests.

Requirements for the B.A. or B.G.S. Major. A minimum of 27 hours is required. The major offers a systematic introduction to each of the subdisciplines along with advanced training in specific areas. These normally are taken before moving on to upper-level courses. Students should select courses listed in part 2 in consultation with faculty advisers.

- Required for all majors, one course in each block (12-15 hours):
ANTH 104, ANTH 105, or ANTH 304
ANTH 106, ANTH 107, ANTH 320, or ANTH 321
ANTH 108, ANTH 109, or ANTH 308; or ANTH 160, ANTH 162, or ANTH 360
ANTH 110, ANTH 111, or ANTH 310
- Five additional courses in anthropology at the 300 level or above (excluding ANTH 301 and ANTH 360) that include the following:
At least one course in archaeology
At least one course in biological anthropology
At least one course in sociocultural anthropology that does not have a specific geographical focus
At least one course in any subdiscipline of anthropology that focuses on a specific geographic area
At least one elective course in any subdiscipline

Majors should take at least two of the introductory courses in part 1 at the 300 level. Students consider-

ing *graduate school* should take at least two courses beyond major requirements. These should be selected in consultation with a faculty adviser.

Requirements for the Minor. Students pursuing an anthropology minor should seek guidance in course selection from anthropology faculty members. Students must complete a minimum of 18 hours in one of the two options. Twelve hours must be numbered 300 or above, and a 2.0 grade-point average in anthropology is required.

Option I provides a grounding in two of the four subdisciplines. Complete any two of the following:

Biological Anthropology: ANTH 104, ANTH 105, or ANTH 304,

and two courses in these number blocks: ANTH 340-359,

ANTH 503, ANTH 440-459, ANTH 540-559, ANTH 640-659

Linguistics: ANTH 106, ANTH 320, ANTH 321, and two courses

in these number blocks: ANTH 322-339, ANTH 502, ANTH

420-439, ANTH 527-539, ANTH 620-639

Sociocultural Anthropology: ANTH 108, ANTH 109, ANTH 160,

ANTH 161, ANTH 308 or ANTH 360, and two courses in

these number blocks: ANTH 361-395, ANTH 501, ANTH 460-

495, ANTH 560-595, ANTH 660-695

Archaeology: ANTH 110, ANTH 111, or ANTH 310, and two

courses in these number blocks: ANTH 311-319, ANTH 500,

ANTH 406-419, ANTH 504-526, ANTH 604-619

Option II allows the student more flexibility in designing a program for maximum breadth in general anthropology or for depth in one of the subdisciplines.

ANTH 100 or ANTH 300

Five additional courses. At least four of these courses must be num-

bered from ANTH 313 to ANTH 695, excluding ANTH 360. One

of the five may be any one of the following: ANTH 104, ANTH

105, ANTH 106, ANTH 108, ANTH 109, ANTH 110, ANTH 111,

ANTH 160, ANTH 304, ANTH 308, ANTH 310, or ANTH 360.

Honors. To qualify for honors, a student must achieve an in-residence and combined minimum grade-point average of 3.25 overall and 3.5 in anthropology. Students must file a declaration of intent form with the instructor with whom they choose to work. In addition to the required hours, the student must enroll in 3 to 6 hours of ANTH 499 Senior Honors Research and complete a senior thesis based on this work. It is recommended that all candidates make an oral presentation of their research results. One copy of the thesis must be bound and placed in the departmental thesis library.

● Anthropology Courses

ANTH 100 General Anthropology (3-4). SC S Lecture and discussion sections covering the four primary fields of Anthropology: Biological Anthropology, Linguistics, Social Anthropology, and Archaeology. Concepts and approaches to each field, using past and present examples from around the world, will be examined with an emphasis on the unity of the anthropological approach. Future directions of human experience are explored. Discussion sections will be used to examine material covered in lecture and in readings in specific cultural and evolutionary contexts. Discussion and application of fundamental concepts to contemporary events, examination of fossil collections, and viewing and discussion of relevant visual materials are among topics to be covered in sections. LEC

ANTH 104 Fundamentals of Physical Anthropology (3-4). NB N Lecture and discussion sections covering the mechanisms and principles of Darwinian evolution with special emphasis on human and primate data. Lecture topics include genetics, variation, primate ethology, and the fossil evidence for human evolution. Discussion sessions include topics in Mendelian and population genetics, blood group systems, quantitative morphological variation, and fossil human and primate skeletal material. LEC

ANTH 105 Fundamentals of Physical Anthropology, Honors (3-4). NB N An honors section of ANTH 104 for students with superior academic records. LEC

ANTH 106 Introductory Linguistics (3). SC S Introduction to the fundamentals of linguistics, with emphasis on the description of the sound system, grammatical structure and semantic structure of languages. The course will include a survey of language in culture and society, language change, computational linguistics and psycholinguistics, and will introduce students to techniques of linguistic analysis in a variety of languages including English. (Same as LING 106.) LEC

ANTH 107 Introductory Linguistics, Honors (3). SC S Introduction to the fundamentals of linguistics, with emphasis on the description of the sound system, grammatical structure, and semantic structure of languages. The

course includes a survey of language in culture and society, language change, computational linguistics and psycholinguistics, and introduces students to techniques of linguistic analysis in a variety of languages including English. Open only to students admitted to the University Honors Program or by consent of instructor. (Same as LING 107.) LEC

ANTH 108 Introduction to Cultural Anthropology (3-4). SC S An introduction to the nature of culture, language, society, and personality. Included in this survey are some of the major principles, concerns, and themes of cultural anthropology. The variety of ways in which people structure their social, economic, political, and personal lives. Emphasized are the implications of overpopulation, procreative strategies, progress and growth of cultural complexity, developments in the Third World, and cultural dynamics in Western as well as in non-Western societies. LEC

ANTH 109 Introduction to Cultural Anthropology, Honors (3-4). SC S An honors section of ANTH 108 for students with superior academic records. LEC

ANTH 110 Introduction to Archaeology (3-4). HT H A general introduction to the study of archaeology. Evolution of prehistoric cultures in adaptive response to changing natural and social environments, from the early Paleolithic to the emergence of urban civilizations. LEC

ANTH 111 Introduction to Archaeology, Honors (3-4). HT H An honors section of ANTH 110 for students with superior academic records. LEC

ANTH 160 The Varieties of Human Experience (3). NW S/W An introduction to basic concepts and themes in cultural anthropology by means of the comparative study of selected cultures from around the world, for the purpose of appreciating cultural diversity. Emphasis is on systems of belief and meaning. Not open to students who have taken ANTH 360. LEC

ANTH 161 The Third World: Anthropological Approaches (3). NW S/W Violent change, revolution, planned change, and peaceful transition in non-Western cultures. A study of development, modernization, nation-building, rapid acculturation, and war. LEC

ANTH 162 The Varieties of Human Experience, Honors (3). NW S/W An honors section of ANTH 160 for students with superior academic records. Not open to students who have had ANTH 160 or ANTH 360. LEC

ANTH 220 The Ethnology of Art (3). NW S/W An anthropological survey of the artistic traditions of selected people to understand aesthetics and styles in their religious, technological, and social context, including the effects that industrialization, tourism, and exposure to world culture have had on these traditions. LEC

ANTH 293 Myth, Legend, and Folk Belief in East Asia (3). NW H/W A survey of the commonly held ideas about the beginning of the world, the role of gods and spirits in daily life, and the celebrations and rituals proper to each season of the year. The purpose of the course is to present the world view of the ordinary peoples of East Asia in contrast to their more sophisticated systems of philosophy which are better known to the Western world. (Same as EALC 130, HWC 130, and REL 130.) LEC

ANTH 300 General Anthropology (3). S A more intensive treatment of the content of ANTH 100. Not open to students who have had ANTH 100. LEC

ANTH 301 Anthropology Through Films (3). S An exploration of the human ways through films. Cross-cultural interpretations by filmed records of varieties of interpersonal relations seen through such aspects of culture as hunting, war, marriage, religion, sex, kinship, and death. Patterns of interactions are analyzed by examples from cultures around the world, primarily the non-Western world. LEC

ANTH 304 Fundamentals of Physical Anthropology (3-4). NB N A more intensive treatment of the content of ANTH 104. Not open to students who have had ANTH 104 or ANTH 105. LEC

ANTH 308 Introduction to Cultural Anthropology (3-4). SC S An introduction to the nature of culture, language, society, and personality. Included in this survey are some of the major principles, concerns, themes of cultural anthropology, and the variety of ways in which people structure their social, economic, political, and personal lives. Emphasized are the implications of overpopulation, procreative strategies, progress and growth of culture complexity, developments in the Third World, and cultural dynamics in Western as well as in non-Western societies. Not open to students who have taken ANTH 108 or ANTH 109. LEC

ANTH 310 Introduction to Archaeology (3-4). HT H A more intensive treatment of the content of ANTH 110. Not open to students who have taken ANTH 110 or ANTH 111. LEC

ANTH 313 New Discoveries in Archaeology (3). S Recent discoveries in anthropological archaeology in various areas of the world and their impact on existing bodies of fact and theory, and on established methods of archaeological discovery. LEC

ANTH 315 The Prehistory of Art (3). S A study of art forms, paintings, engravings, and sculptures attributed to prehistoric people around the world; consideration of the environmental and cultural contexts in which these art forms were created; a review of current interpretations. (Same as HA 315.) LEC

ANTH 317 Prehistory of Europe (3). S A survey of one million years of prehistory from the peopling of the European continent to the Roman Empire. The course will focus on the growth of culture, considering economy and technology, art and architecture. Topics will

include the Neanderthals, the big game hunters of the Ice Age, the megalith builders, the Celts. Prerequisite: An introductory course in anthropology, history, or cultural geography. LEC

ANTH 318 Prehistory of Kansas (3). S A survey of the changing lifeways of Native Americans in Kansas from the time of the earliest inhabitants of at least 12,000 years ago to the period of Euro-American contact. Extensive use will be made of Museum of Anthropology collections. LEC

ANTH 320 Language in Culture and Society (3). SC S Language is an integral part of culture and an essential means by which people carry out their social interactions with the members of their society. The course explores the role of language in everyday life of peoples in various parts of the world and the nature of the relationship between language and culture. Topics include world-view as reflected in language, formal vs. informal language, word taboo, and ethnography of speaking. (Same as LING 320.) LEC

ANTH 321 Language in Culture and Society, Honors (3). SC S An honors section of ANTH 320 for students with superior academic records. Not open to students who have had ANTH 320 or LING 320. (Same as LING 321.) Prerequisite: Membership in the University Honors Program or consent of instructor. LEC

ANTH 340 Human Variation and Evolution (3). N An examination of biochemical and physical variability in contemporary human populations. Topics include: genetic basis of human diversity, evolutionary theory, population genetics, blood groups, biochemical variations, body size and shape, pigmentation, and other morphological characteristics. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 341 Human Evolution (3). N The evolutionary processes and events leading to the development of humans and the humanlike forms from primate ancestors; fossil hominids and the origin of modern Homo Sapiens. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 350 Human Adaptation (3). S A survey and examination of present-day human populations focusing upon adaptations in different environments and the interaction of culture and biology. General evolutionary theory is treated with an emphasis on the mechanisms of evolutionary change. Genetic, physiological, and cultural adaptations to environmental stress are discussed from the standpoint of their past evolutionary significance and their influence on contemporary human variation. Prerequisite: ANTH 104 or ANTH 304. LEC

ANTH 352 Controversies on the Living and the Dead (3). N The pros and cons of conflicting theories on the past and present evolution are examined. Race and intelligence, evolution of skin color, and genetic future of humans are among the considered topics. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 358 Anthropology of Sex, Honors (3). N The course is an introduction to the evolutionary study of human sexual behavior. Using an explicitly Darwinian framework, it examines the biological basis for human mate selection, male and female mating strategies, child-birth and child-care practices, parental care, marriage, and family structure. The power of Darwinian theory to predict human sexual behavior is tested in anthropological field studies, designed and carried out by students in the class. Class time is allocated for discussion of students' research as it progresses through each stage, and results are presented in the last weeks of the semester. Prerequisite: Introductory class in biology or biological anthropology. Open only to students in the University Honors Program, or by consent of instructor. LEC

ANTH 359 Anthropology of Sex (3). N An evolutionary perspective on the behavior and biology of males and females in human society. Topics will include the evolution of sexual dimorphism, social and biological issues in human reproduction, primate social patterns, human sexual behavior and taboos, sex and social structure, and the sociobiology of sex. LEC

ANTH 360 The Varieties of Human Experience (3). NW S/W A more intensive treatment of ANTH 160. An introduction to basic concepts and themes in cultural anthropology by means of the comparative study of selected cultures from around the world, for the purpose of appreciating cultural diversity. Emphasis is on systems of belief and meaning. Not open to students who have taken ANTH 160. LEC

ANTH 361 The Third World: Anthropological Approaches (3). NW S/W A more intensive treatment of the content of ANTH 161. Not open to students who have had ANTH 161. LEC

ANTH 362 Peoples of Southeast Asia (3). NW S/W An analysis of the cultural diversity and unity of the peoples of Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, Indonesia, and the Philippines. Emphasis on cultural-historical relationships and theories of cultural development and change. LEC

ANTH 364 Peoples of Japan and Korea (3). NW S/W An analysis of the cultural diversity and unity of the peoples of Japan and Korea. Emphasis on historical and ethnological relationships, social structure, and ethics. (Same as EALC 364.) LEC

ANTH 365 Japanese People Through Film (3). NW S/W Japanese people's culture and society through an extensive examination of both doc-

Numerous courses in anthropology satisfy the non-Western culture requirement.

The Lied Center Series includes the Concert Series, Swarthout Chamber Music Series, New Directions Series, Broadway Series, Family Series, and World Series, bringing outstanding performers to KU each year.

umentary and feature films. Readings from social science fields and literature will be used—the former to supply a theoretical framework for the study of Japanese people and the latter to further the inquiry into the individual sentiment motivating actions. (Same as EALC 365.) LEC

ANTH 366 The Life Cycle in Japanese Culture and Literature (3). NW H/W A study of the Japanese people from birth to death: what it means to be born in a Japanese family, to grow up Japanese, and to die Japanese. Anthropological works and selections from Japanese literature and film will be used to examine ways in which Japanese people live through the critical periods in their life cycle. (Same as EALC 366.) LEC

ANTH 368 The Peoples of China (3). NW S/W An analysis of the cultural origin, diversity, and unity of the peoples of China. Emphasis on historical development, social structure, cultural continuity and change, and ethics. (Same as EALC 368.) LEC

ANTH 369 Vietnam: Identity and Conflict (3). NW S/W This course examines the making of Vietnamese culture and society. The evolution of Vietnam from a traditional society through colonialism, conflict, and strife to post-Vietnam War nation with its own identity will be explored. The course will show how violence and war help shape a national culture. LEC

ANTH 370 Peoples and Cultures of the Pacific (3). NW S/W A survey of the native cultures of Australia, Melanesia, Micronesia, and Polynesia. Investigation of the origins and dispersal of Pacific peoples, their cultural adaptations to differing habitats, their forms of social, political, and religious organization. Consideration of the problems and cultural changes resulting from colonization and modernization. Prerequisite: ANTH 100, ANTH 108, ANTH 160, ANTH 308, ANTH 360, or consent of instructor. LEC

ANTH 376 North American Indians (3). NW S/W A survey of American Indian cultures north of Mexico at the time of the first contact with Western civilization; detailed studies of selected Indian cultures. LEC

ANTH 378 Contemporary North American Indians (3). NW S/W A survey of Indian-white relations from first contact with Europeans to the present. Topics to be covered include Spanish and U.S. Indian policy, acculturation, tribalism, pan-Indianism, the Native American Church, Red Power, and urban Indians. Films and presentations by representatives of the Native American community will be integrated with lectures to provide the student with an understanding of what it means to be an Indian in contemporary America. LEC

ANTH 379 Indigenous Traditions of Latin America (3). NW S/W A survey of the major indigenous traditions of Mesoamerica, the Andes, and lowland tropical Latin America. Coverage emphasizes how indigenous cultural traditions and societies have both continued and changed since the European Invasion and addresses such current issues as language rights, territorial rights, sovereignty, and state violence. Students enrolled in the 600-level section will be required to complete additional research and class leadership tasks. Not open to students who have taken LAA 634. (Same as LAA 334.) LEC

ANTH 380 Peoples of South America (3). NW S/W A survey of native peoples and cultures of South America from the time of initial Western contacts to the present day. LEC

ANTH 382 People and the Rain Forest (3). S An analysis of the cultural origin, diversity, and unity of the peoples of the neotropics. Emphasizing the peoples of Amazonia, the course introduces students to topics associated with the economic, political, and cultural dimensions of social life in rain forest communities. LEC

ANTH 387 Field Research on Gender (3). S This course examines gender roles and gender culture in Costa Rica, especially in the southern part of the country. Students will be introduced, both theoretically and practically, to feminist anthropology as well as gender ethnography. It covers academic literature about the topic, and literature written by women. The class will also discuss different types of machismo culture and the structures and functioning of families in southern Costa Rica. Class taught in Golfito, Costa Rica. Course taught in Spanish. Contact the Department of Anthropology, or the Office of Study Abroad. LEC

ANTH 389 The Anthropology of Gender: Female, Male, and Beyond (3). NW This course will introduce students to cultural constructions and performances of masculinity, femininity, and alternative genders across time and space. Topics and cases will be drawn from primarily non-Western cultures, ranging from Javanese markets to Pacific Rim gardens, and from Haitian voodoo to Maya royal politics. This course uses research by archeologists, linguists, anthropologists, and socio-cultural anthropologists. (Same as WS 389.) LEC

ANTH 390 The Peoples of Africa (3). NW S/W A more intensive treatment of the content of ANTH 190. Not open to students who have had ANTH 190. LEC

ANTH 397 Museum of Anthropology (3). S An introduction to the historical background, practice, and ethical issues involved in the creation, presentation, and dissemination of anthropological information in a museum setting. Students participate in the study of a collection of material culture (artifacts) from the Museum of Anthropology, culminating in development of a script for an exhibit. FLD

ANTH 400 Topics in Anthropology, Honors: ____ (3). H Selected issues and theories in contemporary anthropology (cultural, linguistic, biological, archaeological) for honors students. Topic for semester to be an-

nounced. May be repeated for credit if content varies. Prerequisite: Admission to the University Honors Program or consent of instructor. LEC

ANTH 406 Laboratory Techniques in Archaeology (3). S A survey of basic laboratory procedures associated with specimen preparation, analysis, classification, and measurement of archaeological materials, with emphasis on lithic and ceramic technology. Formal lectures and laboratory sections. LEC

ANTH 410 Archaeological Myths and Realities (3). S A more intensive treatment of the content of ANTH 210. Not open to students who have had ANTH 210. LEC

ANTH 415 The Rise of Civilization (3). S A study of evolutionary processes leading to the birth of the early great urban civilizations of the Old World and the New World. Patterns of growth and similarities and differences in the rise of urban complexes and states in Mesopotamia, Egypt, the Indus Valley, and in Mexico/Guatemala and Peru. LEC

ANTH 418 Summer Archaeological Field Work (1-8). S Under the direction of a professional archaeologist, undergraduate and graduate students are taught proper procedures for the excavation and laboratory analysis of data from a prehistoric or historic archaeological site. Data gathered may be used for additional graduate research. Enrollment by application; limited to twenty students. A fee for subsistence costs will be charged. FLD

ANTH 419 Training in Archaeological Field Work (1-6). S Undergraduate and graduate students are taught techniques of archaeological field work, including survey and excavation, as well as laboratory procedures, including artifact classification and curation. FLD

ANTH 430 Linguistics in Anthropology (3). S The study of language as a symbolic system. Exploration into the interrelatedness of linguistic systems, of nonlinguistic communicative systems, and of other cultural systems. (Same as LING 430.) LEC

ANTH 440 Introduction to Primates (3). N A review of the evolution and behavior of nonhuman primates. The survey includes the stages of primate evolution, morphology of living primates, and descriptions and analyses of primate behavioral patterns. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 442 Anthropological Genetics (3). N Principles of human genetics involved in biological anthropology. The genetics of non-Western populations considered within an evolutionary framework. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 445 Topics in Biological Anthropology: ____ (3). N Seminar concentrating on selected problems and issues in contemporary biological anthropology. Topic for semester to be announced. Course may be repeated for a maximum of nine hours of credit. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 447 Human Behavioral Genetics (3). S A survey of human behavioral genetics for upper division undergraduates. Emphasis is on how the methods and theories of quantitative, population, medical, and molecular genetics can be applied to individual and group differences in humans. Both normal and abnormal behaviors are covered, including intelligence, mental retardation, language and language disorders, communication, learning, personality, and psychopathology. (Same as BIOL 432, PSYC 432, SPLH 432.) Prerequisite: Introductory courses in biology/genetics or biological anthropology and psychology are recommended. LEC

ANTH 449 Laboratory/Field Work in Human Biology (1-3). N Faculty supervised laboratory or field research for Human Biology majors. Students design and complete a research project in collaboration with a Human Biology faculty member. (Same as BIOL 449, SPLH 449, and PSYC 449.) Prerequisite: Consent of instructor and Human Biology major. FLD

ANTH 450 Disease and Adaptation (3). N The role of disease in human evolution, variation, and adaptation is examined. Topics include paleopathology, epidemics, and genetic/cultural adaptation to certain diseases. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 460 Theory in Anthropology (3). S A critical examination of the main theories and concepts in cultural anthropology. Consideration of the philosophical presuppositions underlying past and current theoretical issues and trends. LEC

ANTH 461 Introduction to Medical Anthropology (3). S An introduction to the social and cultural practices that contribute to health and disease, including a survey of therapy systems in both Western and non-Western societies (e.g., Native American, African, Western allopathic medicine, etc.). This course should be of special interest to premedical students and majors in the allied health professions. LEC

ANTH 465 Genocide and Ethnocide (3). S Study of the killing of peoples and cultures. Case studies, focusing primarily on tribal South America. Examination of the implications of these studies as regards our definition of culture and our evaluation of aid programs, missionary efforts, and international business expansion. LEC

ANTH 474 Applied Cultural Anthropology (3). S Applications of anthropological theory, methods, and findings in programs of community and

national development, public health, international aid, and military assistance. Examination of the role of the anthropologist, of ethics and values in intervention schemes, and of the organization of planned change in applied programs. Intensive analysis of selected case studies. FLD

ANTH 480 Technology and Society in the Contemporary World (3). S The impact of scientific and technological advances on social and personal life in contemporary society. A wide range of topics will be dealt with during the semester; examples include the internet and new modes of communication, developments in genetics and medicine, and testing for intelligence, drugs, lie detection, and other purposes. LEC

ANTH 482 Psychological Anthropology (3). S Introduction to the interrelationship of individual and society: processes of socialization, perception and cognition, personality and culture, with emphasis on the psychological interpretation of human behavior and the sociocultural contexts of psychological processes. Both ethnographic and cross-culturally comparative perspectives are introduced. LEC

ANTH 484 Magic, Science, and Religion (3). NW S/W A comparative study of religion and systems of value and belief in non-Western cultures. LEC

ANTH 496 Reading and Research (1-6). S Individual investigation of special problems in anthropology. Maximum of three credit hours in any one semester. Prerequisite: Consent of instructor. IND

ANTH 498 Seminar in Technology: ____ (3). S Topic for semester to be announced. LEC

ANTH 499 Senior Honors Research (1-6). S Individual research under the direction of one or more instructors in the department. Maximum of four credit hours in any one semester. Prerequisite: A grade-point average of 3.5 in anthropology and 3.0 in all courses, and consent of instructor. IND

ANTH 500 Topics in Archaeology: ____ (3). S Seminar concentrating on selected problems and issues in contemporary archaeology. Topic for semester to be announced. Course may be repeated for a maximum of nine hours of credit. Prerequisite: Successful completion of a course in archaeology at any level, or by permission of instructor. LEC

ANTH 501 Topics in Sociocultural Anthropology: ____ (3). S Course concentrating on selected problems, theories, and issues in contemporary sociocultural anthropology. Topic for semester to be announced. LEC

ANTH 502 Topics in Anthropological Linguistics: ____ (3). S Course concentrating on selected problems, theories, and issues in contemporary anthropological linguistics. Topic for semester to be announced. LEC

ANTH 503 Topics in Biological Anthropology: ____ (3). S Course concentrating on selected problems, theories, and issues in contemporary biological anthropology. Topic for semester to be announced. LEC

ANTH 504 North American Archaeology (3). SA A general survey of the archaeology of North America. Detailed coverage of selected problems. LEC

ANTH 505 Prehistory of Eastern North America (3). SA A survey of the archaeological record of eastern North America from the late Pleistocene to the time of European contact. The diverse environments of eastern North America are considered in conjunction with the dynamic climatic and ecological changes which have occurred during the past 20,000 years to provide a background for study of the prehistoric groups who occupied the region. Topics will include the change in economies, technologies, and organization from the earliest hunter-gatherers through the development of pre-Columbian complex societies. Prerequisite: ANTH 110 or ANTH 310. LEC

ANTH 506 Ancient American Civilizations: Mesoamerica (3). NW S/W An archaeological survey of the Precolonial heritage of Mexico and Central America. The sites and cultures of the Olmecs, Teotihuacan, the Maya, the Zapotecs, the Toltecs, and the Aztecs will be considered in detail. Investigations of ancient art and architecture, crafts and technologies, trade and exchange, religious beliefs and practices, and writing and calendrical systems will be directed toward understanding the growth and the decline of these Native American civilizations. LEC

ANTH 507 The Ancient Maya (3). S/W An intensive examination of current scholarship on the ancient Maya civilization of Mexico and Central America. The course will consider Maya culture from its roots in early villages of the Preclassic period to the warring city-states of the Postclassic period. Topics will include settlement and subsistence systems, sociopolitical evolution, art and architecture, myth and symbolism, and Maya hieroglyphic writing. An important theme of the course will be the relevance of the Precolonial Maya for understanding complex societies and contemporary Latin American Culture. Prerequisite: Successful completion of one of the following: ANTH 110, ANTH 310, ANTH 415, ANTH 506, or ANTH 508. LEC

ANTH 508 Ancient American Civilizations: The Central Andes (3). NW S/W An archaeological survey of the ancient peoples of Peru and neighboring countries in South America. The origins of complex societies on the coast and in the Andean highlands will be reviewed with special consideration of the role of "vertical" environments in the development of Andean social and economic systems. Cultures such as Chavin, Moche, Nazca, Huari, Tiahuanaco, Chimu, and the rise of the imperial Inca state will be examined through artifacts, architectural remains, and ethnohistoric documents. LEC

ANTH 510 An Introduction to Southwestern Archaeology (3). NW S Consideration of the history and processes of cultural development from the evidence of humans' first presence to the historic period in the Southwestern United States and Northern Mexico. Special attention will be devoted to the origins, changes within, and connections to modern Southwestern native peoples of three long-lived traditions known as Hohokam, Mogollon, and Anasazi. Prerequisite: ANTH 110 or ANTH 310. LEC

ANTH 511 The Celts (3). HA A multidisciplinary study of over 2000 years of early European history (1200 BC-800 AD) combining the approach of archaeology and anthropology, art history, and linguistics. Emphasis will be on the most important aspects of the growth and development of the arts, cultures, and languages of these pan-European peoples from their west-central European origins to their maximum expansion and their confrontation with Rome, the Anglo-Saxons, and the Franks. The survival of Celtic culture in the "Celtic fringe" of western Europe and the "Celtic Revival" in the 19th and 20th centuries will be considered at the end of the semester. (Same as HA 511.) LEC

ANTH 512 Ethnohistory: ____ (3). SA A critical evaluation of the records (local traditions, written documents, maps, photographs, etc.) relevant to a reconstruction of the history of cultures. Topic for the semester to be announced. LEC

ANTH 513 La France Avant La Gaule: France Before the Romans (3). SA A survey, taught in French, of the early history of the regions which now constitute the French nation from the first appearance of human groups to the Roman conquest. The course will include a series of case studies, lectures, and discussions that will center on new discoveries and recent works to introduce students to the goals and methods of archaeology. Emphasis will be placed on museums, sites, and locations that students may have a strong interest in or occasion to visit while studying abroad; for example: the reindeer hunters' camps of the Paris Basin, the lake-side villages of Franche-Comte, the oppida of Burgundy, the painted caves of the Dordogne, and the megalithic structures of Brittany. Prerequisite: FREN 240 or consent of instructor. LEC

ANTH 514 The Near East in Prehistory (3). SA A broad examination of the prehistory of the Near East, emphasizing selected regional and research themes. Discussion will include a consideration of cultural adaptation and environmental diversity, early history of archaeological work, and current research trends. While all cultural periods will be examined, a major emphasis will be on the origins of food production and Neolithic economies. LEC

ANTH 515 Topics in Old World Prehistory: ____ (3). S Topic for the semester to be announced. An introductory course in archaeology recommended. LEC

ANTH 516 Hunters and Gatherers (3). S The diversity of hunter-gatherer cultures documented in the ethnographic and archaeological records is considered on a global scale, with particular attention given to the relationships between environment, technology, and organization. The evolution of hunter-gatherers from the earliest hominids until their interaction with more complex societies is considered, with emphasis given to the variation and nature of change in these societies. Prerequisite: ANTH 108 or ANTH 110, or ANTH 308 or ANTH 310. LEC

ANTH 517 Geoarchaeology (3). N Application of the concepts and methods of the geosciences to interpretation of the archeological record. The course will focus primarily on the field aspects of geoarchaeology (e.g., stratigraphy, site formational processes, and landscape reconstruction), and to a lesser extent on the array of laboratory approaches available. (Same as GEOG 532.) Prerequisite: GEOG 104, ANTH 110, or ANTH 310. LEC

ANTH 518 Environment and Archaeology (3). S An investigation of the relationships between the biophysical world and the development of human cultures. Examination of archaeological methods employed in the study of these relationships. LEC

ANTH 519 Lithic Technology (3). S An introduction to the analysis and interpretation of prehistoric stone industries. Topics discussed include origins and development of lithic technology, principles of description and typology, use and function of stone tools; interpretation of flint knapping. Prerequisite: An introductory course in archaeology. LEC

ANTH 520 Archaeological Ceramics (3). S Practicum in the method and theory of pottery analysis in archaeology. Topics include manufacturing techniques, classification, and compositional analysis of pottery artifacts, as well as strategies for interpreting the role of ceramic vessels in food production, storage, and consumption; social and ritual activities; trade and exchange; and the communication of ideas. Prerequisite: ANTH 110 or ANTH 310. LEC

ANTH 521 Zooarchaeology (3). S This course is intended to complement faunal identification with practical involvement in analyses and interpretation of archaeological faunal assemblages using a variety of modern methods. Students will participate in the study of specific archaeological faunal remains, development of comparative zooarchaeological collections, and in middle-range research to document the variety of agents that affect faunal remains. Prerequisite: ANTH 110 or ANTH 310. LEC

ANTH 522 Paleoethnobotany (3). S This course discusses the relationship between past human groups and their plant environment, including the use of plants for food, fuel, shelter, and household arti-

Most upper-level courses in anthropology have prerequisites.

KU was one of the 77 "Best Value" undergraduate institutions in the nation named to the Princeton Review's America's Best Value College list. KU also was named one of the "Best in the Midwest," one of the 150 schools profiled in the Princeton Review's first edition of The Best Midwestern Colleges.

cles. Topics include a review of the development of paleoethnobotanical research, methods and techniques of data recovery, basics in plant identification, methods of data quantification and interpretation, and current research topics. In addition to selected readings, students will participate with the development of comparative botanical collections and the interpretation of botanical remains recovered from archaeological contexts. Prerequisite: ANTH 110 or ANTH 310. LEC

ANTH 540 Demographic Anthropology (3). S This course will survey demographic topics that are relevant to anthropological research and theory. Topics will include family and household structure, fertility, nuptiality, mortality, migration, and paleodemography. Emphasis will be placed on methods in use in these areas and applications from the literature. Prerequisite: Three courses in anthropology (at least one in physical and one in cultural) or graduate standing. LEC

ANTH 542 Biology of Human Nutrition (4). N Lecture and discussion. A comprehensive introduction to human nutrition, focusing on the anatomical, biochemical, and physiological aspects of nutrition. The essential nutrients and their role in human metabolism are covered in detail, and the course's systemic approach places a strong emphasis on integration of metabolism. Students also are introduced to human dietary evolution, the concept of nutritional adaptation, and cross-cultural differences in diet and nutritional physiology. Discussion sections focus on applied aspects of human nutrition, including dietary assessment. The course is a prerequisite for ANTH 543, which is recommended as the second course in a sequence on human nutrition. Prerequisite: ANTH 104 or ANTH 304, and BIOL 152. Students who have not had BIOL 152 should have taken a comparable introductory course in organismal physiology. LEC

ANTH 543 Anthropology of Food and Nutrition (3). N The first half of the course focuses on nutrition through the life cycle, with an emphasis on biological, cultural, and environmental factors that influence human dietary intake and nutrition across the life span. Particular attention is given to the role of nutrition in cross-cultural variation in human growth, development, and aging. The second half of the course examines evolutionary aspects of human nutrition, including the origins and adaptive significance of regional and cultural basis. The development of taste and food preferences, at the level of the individual and population, as well as symbolic aspects of dietary behavior also will be considered. Prerequisite: ANTH 542 or permission of instructor. LEC

ANTH 544 Physical Anthropology of American Indians (3). N A survey of the genetic, demographic, and morphological variability in the indigenous populations of the New World. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 545 Contemporary Health Issues in Africa (3). S The course examines health and nutrition in African communities, using the methods of biological and medical anthropology. Fundamental to the approach taken in the course is the understanding that the health of human groups depends on interactions between biological and cultural phenomena in a particular ecological context. One topic will be selected per semester, to examine in detail the full array of epidemiological factors contributing to patterns of specific diseases. AIDS, childhood diseases, and reproductive health of African women are among possible topics. Course material will be selected from scholarly and medical publications, as well as coverage in the popular media. The use of a variety of sources will enhance understanding of the biological and cultural issues involved and will help students identify possible bias and misinformation in popular coverage of events such as famine or epidemic in African settings. (Same as AAAS 554.) Prerequisite: An introductory course in either anthropology or African studies. LEC

ANTH 549 Human Paleontology: Fossil Apes to Australopithecus (3). N This course is an intensive survey of the fossil evidence for hominoid evolution up to the emergence of the first hominids—Australopithecus. Topics include the origin and evolution of the great apes, gibbons, and extinct forms such as Ramapithecus and Gigantopithecus, as well as the appearance of Australopithecines. Functional morphology is stressed. This course may be taken either before or after ANTH 550. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 550 Human Paleontology: Homo Erectus to Homo Sapiens (3). N The rise of genus *Homo* is the theme of this course. Fossils representing erectus, Neanderthal, Upper Paleolithic, and post-Pleistocene forms are discussed in detail with particular emphasis on the relationship between cultural and morphological change. The course is a continuation of ANTH 549, but may be taken out of sequence. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LEC

ANTH 563 Cultural Diversity in the United States (3). SC S Anthropological approaches to racial, ethnic, religious, and localized communities in contemporary U.S. Surveys major theories from social science, considers case studies of immigrant indigenous peoples from historical and contemporary, local, national, and international perspectives, and addresses questions concerning the sources, conditions, and consequences of in-group and out-group identities. Prerequisite: Introductory cultural anthropology and one cultural course numbered 300 or above, or permission of instructor. LEC

ANTH 565 Popular Images in Japanese Culture, Literatures, and Films (3). NW S/W The course examines recurring themes and images in Japanese culture through films, literary works, and anthropological and other social science literature. These themes and images are studied in the contexts of both modern and traditional cultures. Although the popular deviates from the orthodox, nevertheless, the energy and pervasiveness of these bastard offspring enforce and sustain "proper" cultural values. As a result of exploration of both highways and backroads of cultural expression, a holistic picture of Japanese ethos will emerge. (Same as EALC 565.) LEC

ANTH 567 Japanese Ghosts and Demons (3). NW S/W An investigation of deeply rooted Japanese beliefs about intimate relationships among humans, animals, and nature - beliefs which help to explain the mysterious and to lend order to the world. Anthropological works, selections from Japanese literature, historical documents, artworks, and films will be used to examine supernatural themes. (Same as EALC 567.) LEC

ANTH 571 Violence, Aggression, and Terrorism in the Modern World (3). S A cultural and psychological analysis of the sources, dynamics, effects, and practices of modern patterns of violence. Variations in psycho/social reactions to violence will be examined with reference to personal, social, and cross-cultural characteristics. Particular attention will be given to the cultural and individual characteristics of people who successfully survive violence and terrorism targeted at them. Emphasis will be upon the psychological and cultural origins of terrorism and violence in modern societies. (Same as PSYC 571.) Prerequisite: Introductory course in anthropology or psychology. LEC

ANTH 580 Feminism and Anthropology (3). S This seminar will introduce students to feminism in anthropology, including feminist theories, methodologies, ethnographic styles, and the history of women in the discipline since the late 1800s. Emphasis is on the social contexts for feminist theory-building since the 1960s and changing ideas about gender and power. (Same as WS 580.) Prerequisite: One of the following: ANTH 389, ANTH 460, W S 201; or permission of instructor. LEC

ANTH 582 Ethnobotany (3). S Course will involve lectures and discussion of ethnobotany - the mutual relationship between plants and traditional people. Research from both the field of anthropology and botany will be incorporated in this course to study the cultural significance of plant materials. The course has 7 main areas of focus: 1) Methods in Ethnobotanical Study; 2) Traditional Botanical Knowledge - knowledge systems, ethnolinguistics; 3) Edible and Medicinal Plants of North America (focus on North American Indians); 4) Traditional Phytochemistry - how traditional people made use of chemical substances; 5) Understanding Traditional Plant Use and Management; 6) Applied Ethnobotany; commercialization and conversation (focus on traditional harvest of plant materials); 7) Ethnobotany in Sustainable Development (focus on medicinal plant exploration by pharmaceutical companies in Latin America). (Same as EVRN 542.) Prerequisite: ANTH 104, ANTH 108, EVRN 148, or consent of instructor. LEC

ANTH 586 Visual Anthropology (3). U This course takes a hands-on approach to the study of theory, ethics, and methods in visual ethnographic representation. Students also read and consider historical dimensions in this subdiscipline and complete individual and team projects in photographic and videographic media. Prerequisite: An introductory course in cultural anthropology or permission of the instructor. LEC

ANTH 595 The Colonial Experience (3). NW S/W An anthropological and historical examination of the processes and dynamics of the colonial experience. Cross-cultural psychosocial phenomena that have profoundly affected the values and social organizations of both colonizers and colonized will be emphasized. Specific examples will be chosen from the former American, Japanese, and European colonial empires with emphasis on Asia. LEC

ANTH 648 Human Osteology (4). N Techniques in bone identification, sex, race, age determination, stature reconstruction, paleopathology, and bone biology are reviewed. Prerequisite: An introductory course in physical anthropology, biology, or permission of instructor. LAB

ANTH 650 Human Reproduction: Biology and Behavior (3). N This is a comprehensive course in the biology of human reproduction (anatomy, physiology, and endocrinology). The implications of human reproductive biology for the evolution of human behavior are considered as well. Students also examine in detail the methods and theories underlying two interconnected approaches utilized by biological anthropologists in the study of human reproduction: human reproductive ecology, which focuses on the biological determinants of human reproductive function and reproductive success, and human behavioral ecology, which focuses on evolutionary relationships between human reproductive strategies and human social behavior. The course is the first part of a two-semester sequence (ANTH 650 and ANTH 660) that examines in detail biological and cultural determinants of human reproductive strategies. Prerequisite: ANTH 359 or BIOL 152 or permission of instructor. LEC

ANTH 652 Population Dynamics (3). N Examination of possible interrelationships between the demographic structure of a population and the forces of evolution. Students are exposed to field methods and techniques of population studies. Prerequisite: An introductory course in anthropology, biology, or permission of instructor. LEC

The Department of Applied Behavioral science offers KU's program in human development and family life.

KU's Schiefelbusch Institute for Life Span Studies comprises 12 centers or major programs conducting more than 80 funded research, training, and demonstration projects supported by federal grants.

- ANTH 660 Human Reproduction: Culture, Power, and Politics** (3). S This seminar analyzes and critiques the socially constructed nature of reproductive practices and their articulation with relations of power. Topics range from conception to menopause, infertility to population. Cases are drawn from a wide variety of cultural contexts. This course is the second part of a two-semester sequence (beginning with ANTH 650) that examines in detail biological and cultural determinants of human reproduction. (Same as WS 660.) Prerequisite: ANTH 650, or 6 hours in women's studies, or permission of instructor. LEC
- ANTH 661 Cultural Dynamics** (3). S A survey of representative studies of the processes of cultural stability and change, and of theories of innovation, diffusion, acculturation, growth, and planned intervention in cultural processes. LEC
- ANTH 662 Economic Anthropology** (3). S An analysis of systems of production and exchange in tribal and peasant societies, and examination of the economic factors in acculturation and culture change. LEC
- ANTH 665 Women, Health, and Healing in Latin America** (3). S This seminar uses a life-cycle approach to examine women's health (physical, mental, and spiritual) and their roles as healers. Special consideration is given to the effects of development programs on well-being, access to health care, and changing roles for women as healers. Cases will be drawn from a variety of Latin American contexts. (Same as WS 665 and LAA 665.) Prerequisite: 6 hours of course work in anthropology and/or women's studies and/or Latin American studies. LEC
- ANTH 666 Anthropology of Religion** (3). S An examination of the various approaches (individual, ritual, and cognitive) anthropologists have adopted in the study of religion, with emphasis on millenarian and prophetic movements as examples of radical change. LEC
- ANTH 667 Primitive Mythology** (3). S/W Methods of studying the mythology of nonliterate peoples; historical survey of theories of myth; consideration of worldwide myths and primitive mythologies from specific cultures. LEC
- ANTH 670 Contemporary American Culture** (3). S An anthropological investigation, in seminar format, of the social consequences of transformations in today's society. Specific topics may include: the information explosion; developments in science and technology; genetics and assisted reproduction; ethnic and cultural diversity; and changing views of the normal and abnormal, sexual and other forms of relationships, and of the self. Prerequisite: An introductory course in cultural anthropology, sociology, or American studies. LEC
- ANTH 672 Meat and Drink in America** (3). S This seminar examines food and beverage production and consumption in the United States. Organized metaphorically as a meal, the course explores where food and beverages come from, how they are produced and by whom, and what they mean to us as eaters and drinkers. Although the course surveys food and beverage production and consumption in general, special attention is given to meat and poultry, alcohol, coffee, carbonated drinks, regional foods, opposition to consumption of meat and alcohol, and tobacco. LEC
- ANTH 674 Political Anthropology** (3). S Analysis of political systems of tribal societies and of pre-industrial states. LEC
- ANTH 675 Anthropology of Law** (3). S Comparative analysis of the legal and political stratagems used to achieve social control in both Western and non-Western cultures. Emphasis on the differential use of customary and legal sanctions, formalized procedures of negotiation or adjudication, and the role of legal specialists in society. LEC
- ANTH 680 Culture and Human Biology** (3). S A lecture course concerned with the relationship between culture and biological systems; the prohibition of incest; socialization and aggression in ethnological studies; disease and therapy; and other alterations of mind and body states. LEC
- ANTH 684 Anthropology and the Health Sciences** (3). S Ecology of human health; cultural and social factors in the etiology of human diseases; social and cultural variables involved in health practices, programs, the organization of healing systems and the diagnostic process; the consequences of health innovations and medicotechnical apparatus. LEC
- ANTH 695 Cultural Ecology** (3). S Investigation of the interrelations between sociocultural systems and the natural environment, including a survey of major theories and descriptive studies. (Same as GEOG 670.) LEC
- ANTH 699 The Anthropology Museum** (3). S The history, philosophy, and function of anthropological museums, including a consideration of archaeological, ethnographic, and physical anthropological collections as records, research tools, and as resources for cross-cultural experiences. Special attention will be devoted to the Museum of Anthropology at K.U. LEC
- ANTH 701 History of Anthropology** (3).
- ANTH 702 Current Archaeology** (3).
- ANTH 703 Current Biological Anthropology** (3).
- ANTH 704 Current Cultural Anthropology** (3).
- ANTH 705 Technological Change:** ____ (3).
- ANTH 710 History of American Archaeology** (3).
- ANTH 715 Seminar in Plains Archaeology:** ____ (2-4).
- ANTH 718 Seminar in Latin American Archaeology:** ____ (3).

- ANTH 720 Seminar in Old World Prehistory:** ____ (2-4).
- ANTH 730 Linguistics in Anthropology** (3).
- ANTH 740 Linguistic Data Processing** (3).
- ANTH 741 Field Methods in Linguistic Description** (3).
- ANTH 747 North American Indian Languages** (3).
- ANTH 748 Language Contact** (3).
- ANTH 749 Linguistics and Ethnolinguistics of China and Central Asia:** ____ (3).
- ANTH 750 Disease and Adaptation** (3).
- ANTH 754 Biological Bases of Human Behavior** (3).
- ANTH 756 Genetics of Isolates** (3).
- ANTH 759 Dental Anthropology** (3).
- ANTH 761 Introduction to Medical Anthropology** (3). SC
- ANTH 762 Human Growth and Development** (3).
- ANTH 764 Selected Topics in Human Paleontology:** ____ (3).
- ANTH 766 Topics in Biological Anthropology:** ____ (3).
- ANTH 769 Seminar in Primate Studies** (3).
- ANTH 770 Research Methods in Physical Anthropology** (3).
- ANTH 775 Seminar in Cultural Anthropology:** ____ (3-9).
- ANTH 778 Seminar in Applied Cultural Anthropology** (3).
- ANTH 780 Social Organization** (3).
- ANTH 781 Symbolic Anthropology** (3).
- ANTH 783 Doing Ethnography** (3).
- ANTH 785 Topics in Ethnology:** ____ (3).
- ANTH 786 Ethnographic Documentary Production** (3).
- ANTH 788 Symbol Systems:** ____ (3).
- ANTH 789 Anthropology of Gender: Advanced Seminar in the Four Fields** (3).
- ANTH 794 Material Culture** (3).
- ANTH 799 Anthropology Museum Apprenticeship** (1-6).

Applied Behavioral Science

The KU Program in Human Development and Family Life Chair: Edward K. Morris, absc@ku.edu

Dole Center, 1000 Sunnyside Ave., Room 4001

Lawrence, KS 66045-7555

(785) 864-4840, fax: (785) 864-5202, www.absc.ku.edu

Degrees offered: B.A., B.G.S., M.A., Ph.D., Ph.D.-M.P.H.

The department teaches students to understand behavior and solve societal problems through evidence-based practice and critical thinking in applied behavioral science. Areas of application include infancy and early childhood, developmental disabilities, delinquency and juvenile justice, independent living and rehabilitation, physical disabilities, gerontology, and health promotion and community development. Introductory and core courses provide a sequence of instruction in (1) the basic principles of behavior, (2) applications of these principles to programs for solving problems of individual and societal importance, (3) rules of evidence for data-based decision-making in solving these problems, and (4) the conceptual, comparative, and historical foundations of modern behavioral science. Specialty-area courses instruct students further about the contexts of application at the individual, family, and community levels. Recommended courses in other departments and schools (e.g., biology, psychology, sociology, political science, social welfare, special education) provide students with an even broader appreciation for the diversity of society's problems and an interdisciplinary perspective on their solutions. A practicum in the senior year integrates course requirements with supervised training or research experience.

Courses for Nonmajors

All 100-level ABSC courses are open to nonmajors. Each fulfills a College principal course distribution requirement in the social sciences for either individual behavior or public affairs; ABSC 310/ABSC 311 fulfills the public affairs requirement. Courses numbered from ABSC 200 to ABSC 674 are open to nonmajors who have the prerequisites. Practicum courses numbered ABSC 675 and higher are restricted to majors unless students have the instructor's permission.

Majors

Preparation, Advising, and Careers. Prospective majors should enroll in an introductory course and one of the 300-level core courses during the first two years and list ABSCA-BA as their interest code on the College's ARTS form. By the end of the second year, they should have consulted with a faculty adviser about degree requirements, specialty areas, and career opportunities. This information may also be found in the department's *Undergraduate Handbook*, available in the main office, and online, www.absc.ku.edu. By the beginning of the junior year, majors should complete the College's Major Declaration Form. They should list either ABSCA-BA or ABSCA-BGS as the major code on the ARTS form for a Bachelor of Arts or Bachelor of General Studies degree, respectively.

Requirements for the B.A. or B.G.S. Major. The major requires 33 credit hours, 15 of them at the junior/senior level, that is, courses numbered 300 and higher. The courses are sequenced as follows:

Introductory Courses (3 hours)	
ABSC 100 Introduction to Applied Behavioral Science (3) or ABSC 101 Introduction to Applied Behavioral Science, Honors (3)	3
Core Courses (10 hours)	
ABSC 304 The Principles and Procedures of Behavior Modification and Therapy	3
ABSC 308 Research Methods and Application	4
ABSC 509 Contemporary Behavioral Science: Historical, Conceptual, and Comparative Foundations	3

Specialty Areas. All majors select a specialty area from those listed below and from one of the options within them, if they are offered. Students should see an adviser in the prospective specialty area by the end of the sophomore year. The areas and the options are

- Early Childhood**
Early Childhood Autism Intervention
Early Childhood Education and Intervention
Early Childhood Research
- Youth Development and Juvenile Justice**
Delinquency and Juvenile Justice
- Adults with Disabilities**
Adults with Developmental Disabilities
Applied Gerontology
- Community Health and Development**
Community Leadership
Health Promotion
Independent Living

Alternative specialty areas may be arranged with the prior approval of the department's undergraduate curriculum committee and a faculty adviser, who mentors the student.

Content Courses (14-17 hours). Each specialty area has its own required and elective content courses. The electives are junior/senior-level courses necessary to complete the 33-hour major and its requirement of 15 junior/senior hours. They are drawn from either a recommended or a restricted list of courses. Students are encouraged to select content courses for their College general education requirements that complement their specialty areas, such as courses in the biological sciences, social sciences, and humanities, and in the professional schools (e.g., special education, social welfare, premedicine).

Practicum Courses (3-6 hours). Each specialty area has a practicum requirement that provides supervised, hands-on training or research experience. The minimum prerequisite for the practicum courses is completion of (or concurrent enrollment in) an introductory course, the three core courses, or permission of the instructor. Some practicum courses also require completion of (or concurrent enroll-

ment in) the required specialty area courses. Students should consult an adviser in the specialty area early in the junior year about practicum placements, prerequisites, and requirements.

Limitations. No more than a total of 6 hours of ABSC 279, ABSC 469, ABSC 479, ABSC 489, and ABSC 499, and no more than 6 hours of practicum, apply to the 33-hour major.

International Experience, Research Experience, and Service Learning. The department offers students opportunities to obtain international experience in a program offered jointly with KU's Study Abroad Program (ABSC 279, ABSC 479) and research experience with faculty members who teach research courses or a research practicum: ABSC 499, ABSC 599, ABSC 679, ABSC 698, ABSC 699. Research experience is recommended for students planning to attend graduate school. The department also offers some courses that include a service-learning component. Many of these programs, research experiences, and service-learning courses meet university requirements in these areas.

Double Majors. The department encourages double majors and minors in other departments. Double majors are especially appropriate for students planning to attend graduate school or enter professional programs (e.g., psychology, law, medicine). Any of the College's other majors may be appropriate; but among the more common are psychology, human biology, sociology, political science, and speech-language-hearing.

Requirements for the Minor. The department offers a minor that complements majors in other departments, as well as career and service interests. It requires 18 hours, including ABSC 100/ABSC 101, ABSC 140, ABSC 150/ABSC 151, or ABSC 160 and 12 junior/senior hours. Students may elect a set of courses specific to any of the department's specialty areas (e.g., community health and development; see the *Undergraduate Handbook*).

Behavior Analysis Certification. The department offers a program that qualifies students to become Board Certified Associate Behavior Analysts™. Students must pass ABSC 140, ABSC 304, and ABSC 308, obtain requisite supervised or mentored experience, complete the major, complete the KU degree, and pass a national examination. The Behavior Analysis Certification Board® has pre-approved ABSC 140, ABSC 304, and ABSC 308 for admission to the national examination. Students should meet with a BACB® adviser early in the junior year (see also www.bacb.com).

Early Childhood. For information, see the School of Education chapter of this catalog.

Honors. The department's honors program is suited for students planning to attend graduate school. Students are expected to enroll in two semesters of ABSC 599 for a total of 4 to 8 credit hours. The course combines small-group discussions on advanced topics in applied behavioral science, along with honors thesis supervision of a project of the student's design. Honors students are invited to attend the ABS Graduate Proseminar or Department Colloquium series. Students should meet with the department's honors adviser by the middle of the junior year to identify a faculty member with whom to complete the project. Prerequisite: Completion of at least 60 hours in the College with a grade-point average of 3.25 and an average of 3.5 in the department.

Career Opportunities

The department prepares students for careers in their specialty areas, as well as for graduate school and professional training in those and related areas. Careers include work in such fields and settings as early childhood education; early childhood intervention programs; community programs for children, youth, and adults with developmental disabilities; programs for individuals with physical disabilities; delinquency, juvenile justice, and law enforcement; public health and health care; and community-based and nongovernmental organizations. Students enter graduate and professional schools in such areas as applied behavior analysis, applied developmental psychology, clinical and counseling psychology, community development, gerontology, law, medicine, public health, social welfare, and special education.

For every hour of class time, KU expects students to do two hours of work outside of class.

Through the Institute for Life Span Studies, KU has disseminated teaching methods and procedures that have profoundly changed social expectations and attitudes toward people with disabilities.

● Applied Behavioral Science Courses

ABSC 100 Introduction to Applied Behavioral Science (3). SI S This course introduces students to the principles of scientific inquiry in applied behavioral science: objectivity, definitions, observation, reliability, validity, correlation and its limitations, causation, experimental design and analysis, and the interpretation of data. These principles are presented in the context of solving individual and societal problems across the lifespan, for example, in early childhood education, public health, developmental disabilities (e.g., autism), delinquency, independent living for people with disabilities, educational systems, and gerontology. LEC

ABSC 101 Introduction to Applied Behavioral Science, Honors (3). SI S This course introduces students to the principles of scientific inquiry in applied behavioral science: objectivity, definitions, observation, reliability, validity, correlation and its limitations, causation, experimental design and analysis, and the interpretation of data. These principles are presented in the context of solving individual and societal problems across the lifespan, for example, in early childhood education, public health, developmental disabilities (e.g., autism), delinquency, independent living for people with disabilities, educational systems, and gerontology. Open only to students in the University Honors Program. LEC

ABSC 140 Introduction to Principles of Behavior (3). SI S An introduction to rationales, methods, and findings resulting from the empirical study of human behavior. Readings, lectures, videos, and classroom demonstrations are used to illustrate various principles of behavior and techniques of application. These principles are organized into a general theory of human conduct that is contrasted with alternative explanations of human behavior. Students learn basic principles of scientific method and their implications for behavioral science and human affairs. (Formerly HDL 140.) LEC

ABSC 150 Community Leadership (3). SF S An introduction to analysis, intervention, evaluation, and leadership in contemporary problems facing local communities. Readings, lectures, and service-learning activities enable students to understand community problems and how citizens and professionals can address them. (Formerly HDL 150.) LEC

ABSC 151 Community Leadership, Honors (3). SF S An introduction to analysis, intervention, evaluation, and leadership in contemporary problems facing local communities. Readings, lectures, and service-learning activities enable students to understand community problems and how citizens and professionals can address them. Open only to students in the University Honors Program. (Formerly HDL 151.) LEC

ABSC 160 Introduction to Child Behavior and Development (3). SI S An introduction to child behavior and development with an emphasis on the normal developmental range of growth, intelligence, cognition, emotion, language, and social skills from birth to adolescence. (Formerly HDL 160.) LEC

ABSC 268 Introduction to Marriage and Family Relations (3). S This course focuses on the family unit and the factors that affect its development. Topics include dating and cohabitation; family and lifestyle diversity; parental roles and child development; divorce and stepfamilies. The course emphasizes research related to these issues. (Formerly HDL 288.) LEC

ABSC 279 Study Abroad Topics in: ____ (1-5). S A course designed to enhance international experience in topic areas related to applied behavioral science at the freshman/sophomore level. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if the content differs. Prerequisite: Department permission. LEC

ABSC 304 The Principles and Procedures of Behavior Modification and Therapy (3). S An advanced examination of the principles of applied behavior analysis as used to address problems in developmental disabilities, childhood autism, language development, early childhood education, with adolescent and family life, and in normal

everyday adult behavior. Issues in measurement, design, and evaluation of the effects of applied behavior analysis procedures and ethical implications of the use of these procedures are examined. Procedures used to teach and maintain appropriate behaviors, eliminate inappropriate behaviors, and develop comprehensive behavioral intervention programs are described. (Formerly HDL 304.) Prerequisite: ABSC 100/101 or ABSC/HDFL 140. LEC

ABSC 308 Research Methods and Application (4). S Examines research methods used to identify, describe, understand, and intervene on socially important problems occurring across the life span (e.g., early childhood, adolescence, elders) and in varied settings (homes, classrooms, group-care facilities, and communities). Discusses research methods and concepts (e.g., prediction, experimental control, reliability, validity) within scientific, psychological, and behavior-analytic frameworks. Presents strategies and tactics regarding descriptive and experimental methods, direct and indirect measurement, graphical and statistical analysis, and single-subject and group experimental designs. Examines ethics and social responsibility in research. Provides opportunities to read primary and secondary sources, develop research questions, write and present research proposals, and assist in the conduct of research projects. (Formerly HDL 308.) Prerequisite: ABSC/HDFL 140 or ABSC/HDFL 304. LEC

ABSC 310 Building Healthy Communities (3). SF S This course teaches knowledge and skills for addressing issues in community health and development (e.g., substance abuse, adolescent pregnancy, child and youth development, prevention of violence). Students learn core competencies such as analyzing community problems and goals, strategic planning, intervention, and evaluation. In a service-learning component, students apply these skills to issues that matter to them and to the communities they serve. (Formerly HDL 310.) LEC

ABSC 311 Building Healthy Communities, Honors (3). SF S This course teaches knowledge and skills for addressing issues in community health and development (e.g., substance abuse, adolescent pregnancy, child and youth development, prevention of violence). Students learn core competencies such as analyzing community problems and goals, strategic planning, intervention, and evaluation. In a service-learning component, students apply these skills to issues that matter to them and to the communities they serve. (Formerly HDL 311.) Prerequisite: Open only to students in the University Honors Program. LEC

ABSC 342 Adult Development and Aging (3). S An overview of environmental, cultural, and biological influences of adult development and aging. Course material is organized in terms of topics, rather than presenting a chronological account. (Formerly HDL 342.) Prerequisite: ABSC 100/101, ABSC/HDFL 140, ABSC/HDFL 150/151, or ABSC/HDFL 160. LEC

ABSC 350 The Behavioral Treatment of Children with Autism (3). S Students learn about methods of teaching children with autism and about evaluating those methods. Topics include: basic methods of teaching as applied to imitation, productive and receptive language, self-help skills, and engagement in community activities, as well as observation and measurement of behavior in community settings and evaluating consumer satisfaction. The course consists of classroom lectures, discussions, demonstrations, examinations, and completion of laboratory and observation assignments. Enrollment priority is given to majors who intend to do practicum work with children with autism. (Formerly HDL 350.) Prerequisite: ABSC/HDFL 304 or instructor permission. LEC

ABSC 356 Foundations of Early Childhood Education (3). S This course introduces students to the field of early childhood education. Contemporary perspectives and professional practices are examined through an analysis of historical and philosophical ideologies. (Formerly HDL 356.) Prerequisite: ABSC/HDFL 160 or instructor permission. LEC

ABSC 405 Children and Media (3). U The applied study of child development theories and research methods on the influences and effects of television and related visual media on childhood in the contexts of families, schools, and society. (Same as TH&F 405.) (Formerly HDL 405.) LEC

ABSC 410 Behavioral Approaches in Working with Adolescents (3). S Addresses some of the basic behavioral techniques used with juveniles who have problems in school, at home, or in the community: readings and role-playing sessions covering assessment of problems, relationship development, observing and defining behavior, teaching and contracting techniques, and counseling. (Formerly HDL 410.) Prerequisite: ABSC/HDFL 140; ABSC/HDFL 304 highly recommended. LEC

ABSC 433 Analysis of Cultural, Ethnic, and Gender Roles in Childhood and Adolescence (3). S This course examines aspects of different cultures and ethnic groups, and the definitions of gender role behavior found in them. The research literature in these areas is reviewed and the implications for early childhood education settings are studied. The course examines this literature in order to provide an increased understanding of effective approaches to educational practices directly related to the structure of society in the United States. (Formerly HDL 433.) Prerequisite: ABSC/HDFL 160 or instructor permission. LEC

ABSC 437 Independent Living and People with Disabilities (3). S A multi-disciplinary seminar exploring theory, method, research, and practice in independent living. The course reviews personal and environmental factors as they relate to everyday problems affecting peo-

ple with varying disabilities. It also contains service-learning activities in which students apply skills and knowledge gained in the classroom. (Formerly HDFL 437.) Prerequisite: An introductory course in social sciences or consent of the instructor. LEC

ABSC 444 Curriculum Development for Young Children (3). S A survey of educational materials and activities appropriate for young children. Students explore several components of effective curriculum development (e.g., objectives, methods of activity presentation, teaching strategies) and learn to integrate them to construct curricula for a range of content and skill areas. By focusing on functional components of a curriculum, students learn to construct, critically evaluate, and modify curricula for typically and atypically developing children. (Formerly HDFL 444.) Prerequisite: ABSC/HDFL 100/101, ABSC/HDFL 140, or ABSC/HDFL 304. LEC

ABSC 455 Health, Safety, and Nutrition in Early Childhood Development (3). S This course addresses children's health, safety, and nutritional needs and contemporary approaches to achieving wellness. Students develop analytical skills through reading, discussion, and application of theoretical and empirical concepts. Current research results are emphasized and applied to course problem sets and projects. (Formerly HDFL 455.) Prerequisite: ABSC/HDFL 160 or equivalent knowledge. LEC

ABSC 469 Special Topics in: _____ (1-3). S A course designed for the study of special topics in applied behavioral science. Course content addresses major topics and specialized issues in the field. May be repeated for credit if the content differs. Prerequisite: Instructor permission. LEC

ABSC 479 Study Abroad Topics in: _____ (1-5). S A course designed to enhance international experience in topic areas related to topics in applied behavioral science at the junior/senior level. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if the content differs. Prerequisite: Department permission. LEC

ABSC 486 Issues in Parenting (3). S Theoretical approaches to the study of parenting and parent-child relationships, techniques for analyzing common parenting problems, designing appropriate interventions, fostering effective communication skills, understanding issues of diversity, and promoting parent education programs. Professional collaboration and support of families and children are emphasized throughout. Students develop analytical skills through reading, discussion, and application of theoretical and empirical concepts. (Formerly HDFL 486.) Prerequisite: ABSC/HDFL 160 or equivalent knowledge of child development or child psychology. LEC

ABSC 489 Directed Readings in: _____ (1-3). S A course designed for directed readings in applied behavioral science. Readings address major topics and specialized issues in the field. May be repeated for credit if the content differs. (Formerly HDFL 484.) Prerequisite: Instructor permission. IND

ABSC 499 Directed Research in: _____ (1-3). S Basic and applied research experience. The course provides training in research methods, measures, and designs, and the conduct of research, in the behavioral sciences. May be repeated for credit if the content differs. Prerequisite: Instructor permission. RSH

ABSC 509 Contemporary Behavioral Science: Historical, Conceptual, and Comparative Foundations (3). S This course provides a survey of modern behavioral science and its applications. It reviews the field's history; integrates its sub-disciplines; situates it within the natural sciences, social sciences, and humanities; and compares and contrasts it with other perspectives. It covers recent advances in research, their implications for understanding human behavior, and their application to solving societal problems. And, it addresses the ethical implications of applied behavior science. (Formerly HDFL/ PSYC 641.) Prerequisite: ABSC 100/101 or ABSC/HDFL 140, and ABSC/HDFL 304 or instructor permission. LEC

ABSC 535 Developmental Psychopathology (3). S A review of contemporary psychological and developmental disorders of children and youth. Course presents current models of psychopathology, classification systems, assessment methods, and treatment approaches designed for the individual, the family, and the community. Specific attention is given to age, gender, and cultural differences and similarities. Topics include: anxiety disorders, oppositional behavior disorders, physical/sexual abuse, learning disabilities, depression, chronic physical illness, and autism. (Same as PSYC 535.) (Formerly HDFL 535.) Prerequisite: ABSC/HDFL 160 or PSYC 333, or instructor permission. LEC

ABSC 542 Applied Gerontology (3). S This course will provide an overview of social and behavioral problems faced by older adults, people who provide for elders, and human service programs for elders. It also surveys empirically-derived intervention strategies designed to maintain abilities and reduce or eliminate problem behaviors experienced by elders or their caregivers. (Formerly HDFL 542.) Prerequisite: ABSC/HDFL 304 and ABSC/HDFL 308, or instructor permission. LEC

ABSC 555 Issues in Administering Early Childhood Services (2). S This course provides an overview of professional, social, legal, and economic issues associated with the administration of early childhood services and programs. Emphasis is placed on theoretical principles, empirical research, and professional responsibilities inherent in the provision of quality service, including needs assessment, organizational skills, delivery systems, human resource management,

communication skills, grant writing, legal and ethical considerations, and advocacy. (Formerly HDFL 555.) Prerequisite: Senior standing in the early childhood specialty area or instructor permission. LEC

ABSC 560 The Juvenile Justice System: A Behavioral and Legal Perspective (3). S An overview of the juvenile justice system, including the history, development, and current controversy over children's rights in the legal system in light of relevant principles of behavioral science and behavioral systems of rehabilitation. Topics include delinquency, miscreancy, status offenses, dependent-neglected children, child abuse, and juvenile court procedures and personnel (e.g., probation officers), and rehabilitative programs. (Formerly HDFL 560.) Prerequisite: ABSC/ HDFL 140. LEC

ABSC 565 Applied Developmental Psychology (3). S An advanced study of the application of theories and concepts of developmental and behavioral psychology to a range of specific issues and problems of childhood and adolescence. This course relies heavily on the empirical research literature. Topics include contemporary social issues and child development, research in applied settings, assessment, intervention, and prevention, as well as program evaluation. (Same as PSYC 565.) (Formerly HDFL 565.) Prerequisite: ABSC/HDFL 160 or PSYC 333, and ABSC/HDFL/ PSYC 535. LEC

ABSC 599 Honors and Thesis in Applied Behavioral Science (1-5). S A two-semester course combining small group discussions of selected, advanced topics in applied behavioral science with honors thesis supervision on a project of the student's own design. Students normally enroll for one or two hours in fall semester and three to five hours in spring semester. (Formerly HDFL 496.) Prerequisite: ABSC 304, ABSC/HDFL 308, and instructor permission. IND

ABSC 606 Special Projects in the Community (1-10). S Structured opportunities to develop and apply knowledge and skills (e.g., analyzing problems, strategic planning, intervention, evaluation) in a project that addresses a community problem or goal. (Formerly HDFL 606.) Prerequisite: Instructor permission. IND

ABSC 620 Drug Abuse: From Basic Research to Public Policy (3). S This course reviews basic and applied research in the social, behavioral, and neural sciences on how environmental variables, brain mechanisms, individual history, and cultural constraints interact and maintain drug abuse. Topics include the mechanisms of drug action; the safety, toxicity, stimulus properties, and functional impairments related to commonly abused drugs; common models of treatment and prevention; and historical and current legislative and judicial approach to drug abuse. (Formerly HDFL 620.) Prerequisite: A course in biology and a course in either applied behavioral science or psychology. LEC

ABSC 626 Psychology of Adolescence (3). S Impact of factors of social environment and physical growth upon psychological development from puberty to young adulthood. (Same as PSYC 626.) Prerequisite: PSYC 104, PSYC 333, or HDFL/ABSC 160. LEC

ABSC 632 Advanced Child Behavior and Development (3). S An advanced course in child development that includes a survey of the field's principles and theoretical approaches, and current issues in research and practice. Topics will include: prenatal development, cognition and language, social-emotional development, socialization influences in childhood, developmental psychopathology, and social policies. (Formerly HDFL 632.) (Same as PSYC 632.) Prerequisite: ABSC/HDFL 160, PSYC 333, or instructor permission, and senior or graduate status. LEC

ABSC 671 Applied Behavior Analysis (3). S This advanced course extends knowledge and skills in analyzing behavioral problems, designing interventions, and planning applied research projects. Topics include the selection of problems and target populations, analysis of problems/goals, designing measurement systems, developing interventions, and disseminating products from applied behavioral research. (Formerly HDFL 671.) Prerequisite: ABSC/HDFL 304 or instructor permission. LEC

ABSC 672 Applied Behavior Analysis, Honors (3). S This advanced course extends knowledge and skills in analyzing behavioral problems, designing interventions, and planning applied research projects. Topics include the selection of problems and target populations, analysis of problems/goals, designing measurement systems, developing interventions, and disseminating products from applied behavioral research. Students design an intervention research project. Prerequisite: Open only to students in the University Honors Program; ABSC/HDFL 304 or instructor permission. LEC

ABSC 675 Practicum in Infant/Toddler Care and Early Intervention I (3-5). S Experience in a classroom-based early intervention and child-care programs serving children younger than 3 years. Students gain practical experience with care-giving and teaching practices appropriate for typically and atypically developing children. Students learn to develop and implement individualized curricula based on assessments of children's skills. (Formerly HDFL 558.) Prerequisite: ABSC/HDFL 444 (or concurrent enrollment) and instructor permission. FLD

ABSC 676 Practicum in Infant/Toddler Care and Early Intervention II (3-5). S An advanced practicum providing experience in classroom-based early-intervention and child-care program serving children younger than 3 years. Students gain practical experience with care-giving and teaching practices appropriate for typically and atypically developing children. Students learn to develop and implement

The holdings of KU's Anschutz Library cover a complete range of chemistry, biology, and physics periodicals and books.

According to Barron's Best Buys in College Education, KU offers "a wealth of big college experiences for a comparatively small price."

individualized curricula based on assessments of children's skills. (Formerly HDFL 559.) Prerequisite: ABSC/HDFL 444, HDFL 558 or ABSC 675, and instructor permission. FLD

ABSC 677 Practicum in Preschool Education and Intervention I (3-5). S A one-semester practicum providing opportunities for students to assume responsibility for the education and guidance of young children in an early childhood program. Regularly scheduled individual and staff conferences enable students to evaluate personal growth and progress as teachers of young children. (Formerly HDFL 492.) Prerequisite: ABSC/HDFL 444 (or concurrent enrollment) and instructor permission. Must also meet special state requirements for child care employees and volunteers. FLD

ABSC 678 Practicum in Preschool Education and Intervention II (3-5). S A one-semester advanced practicum providing opportunities for students to assume responsibility for the education and guidance of young children in an early childhood program. Regularly scheduled individual and staff conferences enable students to evaluate personal growth and progress as teachers of young children. (Formerly HDFL 493.) Prerequisite: ABSC/HDFL 444, HDFL 492 or ABSC 677, and instructor permission. Must also meet special state requirements for child care employees and volunteers. FLD

ABSC 679 Practicum in Behavior: Analytic Research in Early Childhood (3-6). S A two-semester practicum providing opportunities for supervised training in one of several ongoing research projects in the field of behavior analysis, either basic or applied. Students assist in conducting research and participate in individual and group meetings to discuss and evaluate research and related methodological issues. (Formerly HDFL 688.) Prerequisite: ABSC/HDFL 308 and instructor permission. FLD

ABSC 680 Practicum in Advanced Laboratory in the Development of Behavioral Treatments for Children with Autism (1-6). S Students participate in an intensive behavioral treatment program teaching language, social skills, self-help skills, and academic skills to young children with autism. Students learn: to develop and implement treatment programs; design and use of a system of data collection and analysis; and apply the principles and philosophy of community and school mainstreaming. (Formerly HDFL 550.) Prerequisite: ABSC/HDFL 350 and instructor permission. LAB

ABSC 685 Practicum in Community-based Residential or Day Treatment Programs for Disabled Adults (3-6). S A one or two-semester practicum in which students are provided with the opportunity to work directly with developmentally disabled adults in either community-based residential or day treatment programs. Students are required to read relevant literature, carry out treatment programs, and participate in weekly meetings to discuss treatment goals and progress. (Formerly HDFL 696.) Prerequisite: ABSC/HDFL 304, ABSC/HDFL 410, and instructor permission. FLD

ABSC 687 Practicum in Behavioral Gerontology (1-6). S A one- or two-semester practicum providing opportunities for supervised training in behavioral gerontology. Students: (a) read literature in the area of their specific practicum setting such as adult day care, senior centers, nursing homes; (b) assist in collecting information relevant to evaluating the program effectiveness of their efforts on behalf of the elderly; and (c) participate in discussions and planning meetings relevant to maintenance and improvement of operation of the practicum. (Formerly HDFL 644.) Prerequisite: ABSC/HDFL 342 or ABSC/HDFL 542 and instructor permission. FLD

ABSC 690 Practicum in Community Health and Development (1-6). U A two-semester practicum in which students engage in structured opportunities to practice core competencies related to the work of promoting community health and development (e.g., strategic planning, intervention, evaluation). In weekly group meetings, students prepare for their individual working field settings (e.g., health and human service agencies, research and advocacy organizations, community organizations). (Formerly HDFL 690.) Prerequisite: ABSC/HDFL 150 and ABSC/HDFL 310 or instructor permission. FLD

ABSC 691 Practicum in Community Health and Development, Honors (1-6). U A two-semester practicum in which students engage in structured opportunities to practice core competencies related to the work of promoting community health and development (e.g., strategic planning, intervention, evaluation). In weekly group meetings, students prepare for their individual working field settings (e.g., health and human service agencies, research and advocacy organizations, community organizations). (Formerly HDFL 692.) Prerequisite: Open only to students in the University Honors Program; ABSC/HDFL 151 and ABSC/HDFL 311 and instructor permission. FLD

ABSC 694 Practicum in Juvenile Problems (3-6). S A one-semester practicum providing opportunities for students to aid professionals in the development and implementation of behavioral treatment plans with adolescents. Regularly scheduled individual and group meetings enable the evaluation of the practicum students' progress while working in the rehabilitative process for juveniles who have problems that can bring them into contact with the juvenile justice system. (Formerly HDFL 694.) Prerequisite: ABSC/HDFL 410, ABSC/HDFL 560, and instructor permission. FLD

ABSC 695 Special Practicum in: ____ (3-6). S A one or two-semester practicum providing opportunities for supervised, hands-on training outside the existing specialty areas or their options. This practicum must be arranged with the prior approval of a faculty adviser and the department's Undergraduate Curriculum Committee. Students should see an adviser about this practicum early in their junior year. Prerequisite: Instructor permission. FLD

ABSC 696 Special Practicum in, Honors: ____ (3-6). S A one or two-semester practicum providing opportunities for supervised, hands-on training outside the existing specialty areas or their options. This practicum must be arranged with the prior approval of a faculty adviser and the department's Undergraduate Curriculum Committee. Students should see an adviser about this practicum early in their junior year. Prerequisite: Open only to students in the University Honors Program and instructor permission. FLD

ABSC 698 Special Research Practicum in: ____ (3-6). S A one or two-semester research practicum providing opportunities for supervised, hands-on research training outside the existing specialty areas or their options. This practicum must be arranged with the prior approval of a faculty adviser and the department's Undergraduate Curriculum Committee. Students should see an adviser about this practicum early in their junior year. Prerequisite: Instructor permission. FLD

ABSC 699 Special Research Practicum in, Honors: ____ (3-6). S A one or two-semester research practicum providing opportunities for supervised, hands-on research training outside of the existing specialty areas or their options. This practicum must be arranged with the prior approval of a faculty adviser and the department's Undergraduate Curriculum Committee. Students should see an adviser early in their junior year about the practicum and its prerequisites and requirements. Prerequisite: Open only to students in the University Honors Program and instructor permission. FLD

ABSC 701 Parenting in Modern Society (3).

ABSC 702 Curriculum Development for Young Children (3).

ABSC 703 Leadership in Early Education Programs: Theory and Research (3).

ABSC 704 Research Practicum in Clinical Child Psychology (3).

ABSC 705 Pediatric Psychology (3).

ABSC 706 Special Topics in Clinical Child Psychology: ____ (3).

ABSC 709 Biology and Behavior (3).

ABSC 710 Community Health and Development (3).

ABSC 716 Experimental Problems in Community Settings (1-5).

ABSC 719 Experimental Field Work in Community Settings (1-5).

ABSC 721 Biological Bases of Mental Retardation (4).

ABSC 723 Adolescent Adjustment (3).

ABSC 725 Research Methods and Application (3).

ABSC 730 Developmental Neurobiology (3).

ABSC 735 Within Subjects Research Methodology and Direct Observation (3).

ABSC 741 Readings in Gerontology (3-5).

ABSC 742 Research in Gerontology (1-10).

ABSC 756 Philosophical Bases of Early Childhood Education (3).

ABSC 765 Evaluating and Disseminating Scientific Material I (1-3).

ABSC 787 Gerontology Proseminar (3).

ABSC 788 Designing Early Education Environments (3).

ABSC 796 Laboratory in Behavioral Development and Modification: The Analysis of Behavior I (3).

ABSC 797 Proseminar in Child Language (2).

ABSC 798 The Analysis of Behavior II: Conceptual Foundations, Advanced Principles, and Contemporary Issues (3).

Arabic

See African and African-American Studies.

Art

See the School of Fine Arts chapter of this catalog.

Art History

See History of Art.

Astronomy

(Offered within the Department of Physics and Astronomy)

Chair: Stephen J. Sanders
Associate Chair: Philip S. Baringer
Malott Hall, 1251 Wescoe Hall Dr., Room 1082
Lawrence, KS 66045-7582
(785) 864-4626, www.physics.ku.edu

Degrees offered: B.A., B.S.

Course work in astronomy offers liberal arts students a survey of modern astronomy concepts, gives science and engineering students an introduction to astronomy and astrophysics, and prepares students majoring in astronomy for graduate study.

Majors

First- and Second-year Preparation. Students who may decide to major in astronomy should confer early with a departmental representative about the selection of courses. Students considering a B.A. major should complete ASTR 391, MATH 121, MATH 122, PHSX 211, and PHSX 212 during the first two years to be eligible for required junior/senior course work. Students seeking the B.S. degree also must take MATH 223, MATH 290, MATH 320, PHSX 313 and PHSX 316.

Requirements for the B.A. Major. Thirty-nine hours of astronomy, physics, mathematics, and chemistry are required.

ASTR 196 Introductory Astronomy Laboratory	1
ASTR 391 Physical Astronomy, Honors	3
ASTR 390 Undergraduate Problems	3
ASTR 591 Stellar Astronomy	3
ASTR 592 Galactic and Extragalactic Astronomy	3
PHSX 693 Gravitation and Cosmology (3) or ASTR 595 Astrogeophysics and Planetology (3) or ASTR 691 Astrophysics I (3)	3
PHSX 211 and PHSX 212 General Physics I and II	8
MATH 121 and MATH 122 Calculus I and II	10
CHEM 184 Foundations of Chemistry I	5

Requirements for the Bachelor of Science Degree.

The B.S. requires completion of a 124-hour prescribed curriculum. The B.S. prepares students for professional careers or graduate work in astronomy or astrophysics.

Astronomy Requirements (19 hours)

ASTR 391 Physical Astronomy, Honors	3
ASTR 591 Stellar Astronomy	3
ASTR 592 Galactic and Extragalactic Astronomy	3
PHSX 693 Gravitation and Cosmology (3) or ASTR 595 Astrogeophysics and Planetology (3)	3
ASTR 691 Astrophysics I	3
ASTR 692 Astrophysics II	3
ASTR 503 Undergraduate Research	1

Physics Requirements (34 hours)

PHSX 211 (or PHSX 213), PHSX 212 (or PHSX 214), and PHSX 313 and PHSX 316 General Physics I, II, and III	12
PHSX 521 Mechanics I	3
PHSX 531 Electricity and Magnetism	3
PHSX 536 Electronic Circuit Measurement and Design (4) or PHSX 516 Physical Measurements (4)	4
PHSX 611 Introductory Quantum Mechanics	3
PHSX 671 Thermal Physics	3
PHSX electives	6

(These may be any two physics courses numbered 500 or above and may include ASTR 795/PHSX 795 Space Plasma Physics.)

Mathematics Requirements (21 hours)

MATH 121 and MATH 122 Calculus I and II	10
MATH 223 Vector Calculus (3) and MATH 290 Elementary Linear Algebra (2)	5
MATH 320 Elementary Differential Equations	3
MATH elective	3

(This may be chosen from PHSX 518, PHSX 718, MATH 526, MATH 530, MATH 558, MATH 581, MATH 590, MATH 628, MATH 646, MATH 647, MATH 648, MATH 660, MATH 661, or any 700-level MATH lecture course except MATH 701 & MATH 715.)

Other Requirements (52 hours)

CHEM 184 Foundations of Chemistry I	5
EECS 138 Introduction to Computing: FORTRAN or C++ (3) or EECS 168 Programming I (4)	3-4
English: satisfaction of the B.A. requirements. If requirements can be met in fewer than 9 hours, the remaining hours become free electives (ENGL 362 Foundations of Technical Writing is accepted as the third English course)	9
Humanities: two principal courses	6
Social sciences: two principal courses	6
Western civilization	6
Electives	16

(Courses in a foreign language, chemistry, computer science, and mathematics are recommended. At least 73 hours must be taken outside of physics and astronomy.)

Requirements for the Minor (18-20 hours)

PHSX 211 (or PHSX 213) General Physics I	4
PHSX 212 (or PHSX 214) General Physics II	4
PHSX 313 General Physics III (3) and PHSX 316 Intermediate Physics Laboratory (1)	4
Any combination of ASTR courses numbered above 300	6-8

Honors. Qualified students earning either a B.A. or a B.S. degree with a major in astronomy may graduate with honors by meeting these requirements:

1. By the end of the candidate's final semester, he or she must earn a minimum grade-point average of 3.25 overall and 3.5 in the major in all courses taken in residence and elsewhere.
2. The candidate must complete at least 24 credit hours of astronomy and physics courses numbered 500 or above, including undergraduate research represented by 4 hours of credit in ASTR 596, ASTR 597, PHSX 500, or PHSX 501, with a grade of B or higher.
3. The results of the research must be presented in written form and accepted by three members of the department faculty.

A student who plans to graduate with honors in astronomy must file a declaration of intent form with the departmental honors coordinator, preferably during his or her junior year, but no later than enrollment for the final undergraduate semester.

● Astronomy Courses

ASTR 190 Astronomy and Civilization (3). N A survey course that describes the interplay between the science of astronomy and cultural beliefs. It uses, among others, examples of how religious and philosophical tenets have enhanced or conflicted with scientific principles. Not for astronomy majors. LEC

ASTR 191 Contemporary Astronomy (3). NP N The structure and evolution of the universe, from nearby planets to distant quasars, are examined. Topics include recent discoveries concerning planets, stars, galaxies, pulsars and black holes as well as their evolution, the structure of the universe today and how it will be in the future. The emphasis is descriptive rather than mathematical. Concurrent enrollment in ASTR 196 suggested, but not required. Prerequisite: One year each of high school algebra and geometry. LEC

ASTR 196 Introductory Astronomy Laboratory (1). U An introduction to astronomical observations and methods. Students have the opportunity to use the telescopes at the K.U. observatory. The course includes constellation recognition, finding celestial objects, and interpreting astronomical data. A companion course to ASTR 191 or ASTR 391. Counts as a laboratory science when preceded or accompanied by ASTR 191 or ASTR 391. Prerequisite or corequisite: ASTR 191 or ASTR 391. LAB

ASTR 293 Astronomy Bizarre (3). N An exploration of astronomical extremes from various points of view: extremes in ages (the Big Bang and recent star formation), velocities and distances (quasars), rotation (pulsars), density (white dwarfs, neutron stars, black holes), energy release (stellar explosions), and proximity (interacting binary stars). Prerequisite: Survey course in astronomy. LEC

ASTR 294 The Quest for Extraterrestrial Life (3). N An introduction to the search for planets around other stars and for life in the universe beyond the earth. A discussion of the astronomical conditions under which life might form and the biological conditions of life formation and evolution. Methods of searching for extraterrestrial life. Does not satisfy major requirements. Prerequisite: An introductory course in biology or astronomy. LEC

ASTR 390 Undergraduate Problems (1-3). N Undergraduate observational or theoretical problems in astronomy. Maximum credit, six hours. Prerequisite: Permission of department. IND

ASTR 391 Physical Astronomy, Honors (3). N An honors, calculus-based introduction to astronomy and astrophysics, required for astronomy majors. Components of the Universe - from planetary systems, stellar systems, large scale structure and cosmology - are examined to illuminate the physics principles which govern their evolu-

tion. Not open to students with prior credit in ASTR 191 or ASTR 291. Prerequisite: MATH 121, and either permission of instructor, or participation in the University Honors Program. LEC

ASTR 503 Undergraduate Research (1-4). N This course is for students seeking to fulfill the undergraduate research requirement. Students are expected to participate in some area of ongoing research in the department, chosen with the help of their adviser. At the end of the term, students will present their results in a seminar to other students and faculty. (Same as EPHX 503 and PHSX 503.) Prerequisite: Junior/Senior standing in Astronomy, Engineering Physics, or Physics, or permission of instructor. IND

ASTR 591 Stellar Astronomy (3). N Fundamentals of stellar astronomy including astronomical optics and techniques, coordinate and time systems, stellar spectroscopy, properties of normal, binary and variable stars. Prerequisite: PHSX 212. An introductory astronomy course is desirable. LEC

ASTR 592 Galactic and Extragalactic Astronomy (3). N A study of stellar groups, the interstellar medium, galactic structure and dynamics, galaxies, and cosmology. Prerequisite: ASTR 591 or consent of instructor. LEC

ASTR 595 Astrogeophysics and Planetology (3). N A study of the solar system to include planetary motion, the sun as it affects the solar system, the moon, planetary atmospheres, surfaces and interiors, minor bodies of the solar system, origin and evolution. Prerequisite: PHSX 211. LEC

ASTR 596 Observational Astrophysics (1-3). N Students learn skills involved in modern observational techniques using the facilities of the K.U. observatory. Maximum credit, six hours. Prerequisite: ASTR 592. LEC

ASTR 597 Analysis in Astrophysics (1-3). N Individual students work on specialized research problems in the field of observational or theoretical astrophysics. Maximum credit, six hours. Prerequisite: ASTR 592. IND

ASTR 691 Astrophysics I (3). N An introduction to radiation processes, thermal processes, and radiative transfer in stellar atmospheres and the interstellar medium. (Same as EPHX 691 and PHSX 691.) Prerequisite: PHSX 313 or consent of instructor. LEC

ASTR 692 Astrophysics II (3). N The formation and evolution of stars, nucleosynthesis of the elements, and the physical processes of high energy physics. Prerequisite: ASTR 691 or consent of instructor. LEC

ASTR 791 Seminar in Astrophysics (1-3).

ASTR 795 Space Plasma Physics (3).

Atmospheric Science

(Offered within the Department of Geography)

Chair: Terry Slocum

Associate Chair: Johan Feddema

Lindley Hall, 1475 Jayhawk Blvd., Room 213

Lawrence, KS 66045-7613

(785) 864-5143, www.geog.ku.edu

Undergraduate Coordinator: Donna Tucker

404B Lindley Hall, (785) 864-4738

Degree offered: B.S. (several options)

The program provides a fundamental knowledge of the atmosphere and the weather it generates. Interactions between weather phenomena and human decisions and activities give the subject important applications. Several tracks lead to a Bachelor of Science degree.

Majors

Students who may decide to major in atmospheric science should confer early with a departmental representative about the selection of courses.

Requirements for the B.S. Degree. Four specialized options are available for students who plan professional careers in meteorology or atmospheric science. The General Meteorology option satisfies all the traditional professional meteorology requirements for employment with the National Weather Service, airlines, or other agencies. The Air Pollution Meteorology option meets the need for trained specialists. The Hydrometeorology option may lead to a

career as a meteorologist in one of the many water-related activities in private and governmental agencies. The News Media Forecasting option can lead to a career forecasting the weather on television or radio. The B.S. degree with any of these specialties also prepares students to begin graduate programs in meteorology or atmospheric science.

General Requirements for All Options (95-96 hours)

ATMO 105 Introductory Meteorology	5
ATMO 321 Climate and Climate Change	3
ATMO 505 Weather Forecasting	3
ATMO 521 Microclimatology	3
ATMO 630 Synoptic Meteorology	3
ATMO 640 Dynamic Meteorology	3
ATMO 642 Remote Sensing	3
ATMO 660 Advanced Dynamic Meteorology	3
ATMO 680 Physical Meteorology	3
ATMO 697 Seminar for Seniors	1
DSCI 301 Statistics (4) or MATH 526 Applied Mathematical Statistics I (3)	3-4
CHEM 184 Foundations of Chemistry I	5
COMS 130 or COMS 150 and COMS 330	6
EECS 138 Introduction to Computing: FORTRAN	3
ENGL 101, ENGL 102, and any 200-level English course or ENGL 362 Foundations of Technical Writing	9
EVNR 148 Principles of Environmental Studies	3
MATH 581 Numerical Methods	3
MATH 121, MATH 122, MATH 223, MATH 290, and MATH 320 or MATH 220	18
PHSX 211 and PHSX 212 General Physics I and II	8
Humanities and social sciences (one course each)	6

General Meteorology Option (29 hours)

ATMO 525 Air Pollution Meteorology	3
ATMO 605 Operational Forecasting	2
ATMO 650 Advanced Synoptic Meteorology	3
Free electives	21

Air Pollution Meteorology Option (29 hours)

ATMO 525 Air Pollution Meteorology	3
CHEM 188 Foundations of Chemistry II	5
CE 477 Introduction to Environmental Engineering and Science ..	3
Free electives	18

Hydrometeorology Option (29 hours)

ATMO 525 Air Pollution Meteorology	3
ATMO 605 Operational Forecasting	2
CE 301 Statics and Dynamics	5
CE 330 Fluid Mechanics	4
CE 455 Hydrology	3
Free electives	12

News Media Forecasting Option (29 hours)

ATMO 605 Operational Forecasting	2
ATMO 650 Advanced Synoptic Meteorology	3
JOUR 301 Research and Writing	3
JOUR 415 Multimedia Reporting	3
JOUR 512 Principles of Broadcasting, Cable, and New Technologies	3
Free electives	15

Concentration in Business. A student may graduate from the School of Business with a concentration in atmospheric science. Departmental requirements are

Required Courses in Atmospheric Science

ATMO 321 Climate and Climate Change	3
ATMO 505 Weather Forecasting	3
ATMO 521 Microclimatology	3
ATMO 525 Air Pollution Meteorology	3
ATMO 640 Dynamic Meteorology	3
ATMO 680 Physical Meteorology	3

Prerequisites for these courses include

ATMO 105 Introductory Meteorology	5
EECS 138 Introduction to Computing: FORTRAN	3
MATH 122 Calculus II	5
PHSX 211 General Physics I	4

Students who plan to elect this option should consult advisers in the School of Business and the Department of Geography.

Requirements for the Minor (20 hours)

ATMO 105 Introductory Meteorology	5
ATMO 321 Climate and Climate Change	3
ATMO 505 Weather Forecasting	3
Three courses from the following choices:	9
ATMO 521 Microclimatology (3)	
ATMO 525 Air Pollution Meteorology (3)	
ATMO 630 Synoptic Meteorology (3)	

Forty-one KU students have won Goldwater scholarships for excellence in science and mathematics since the award was established in 1989.

Consult department offices for current listings of all courses required for majors.

In fall 2005, KU offered more than \$8 million in academic scholarships to KU students.

ATMO 640 Dynamic Meteorology (3)
 ATMO 642 Remote Sensing (3)
 ATMO 680 Physical Meteorology (3)

Honors. To be accepted as a candidate for honors, a major must have completed at least 9 hours of upper-division credit in atmospheric science with a grade-point average of 3.5 in all atmospheric science courses and an overall average of at least 3.25. In addition, the program requires ATMO 499, an independent study course consisting of the creation of an honors paper. The student presents the results of this paper in an oral examination to a committee of a minimum of two faculty members, normally from the geography department, and chaired by the ATMO 499 supervisor. To graduate with honors, the student must complete the paper and the examination and maintain the 3.5 and 3.25 grade-point averages.

● Atmospheric Science Courses

ATMO 105 Introductory Meteorology (5). NE N A lecture and laboratory course introducing students to the atmosphere, weather and climate phenomena, and their controlling physical processes. Topics covered include: the structure of the atmosphere, energy and energy budgets, climate and climate change, air pollution, clouds and precipitation, pressure and wind systems, severe weather, and weather forecasting. LEC

ATMO 106 Introductory Meteorology, Honors (5). NE N Honors version of ATMO 105. A lecture and laboratory course introducing students to the atmosphere, weather and climate phenomena, and their controlling physical processes. Topics covered include: the structure of the atmosphere, energy and energy budgets, climate and climate change, air pollution, clouds and precipitation, pressure and wind systems, severe weather, and weather forecasting. Prerequisite: Membership in University Honors Program or by permission of instructor. LEC

ATMO 220 Unusual Weather (3). NE N An introductory lecture course which surveys the general principles and techniques of atmospheric science and illustrates their application through discussions of natural but unusual weather phenomena such as blizzards, hurricanes, tornados, and chinooks, of the effects of air pollution on weather, and of intentional human alteration of the atmosphere. LEC

ATMO 321 Climate and Climate Change (3). N This course is designed to introduce students to the nature of the Earth's physical climate. It introduces the basic scientific concepts underlying our understanding of our climate system. Particular emphasis is placed on energy and water balances and their roles in evaluating climate change. The course also evaluates the impact of climate on living organisms and the human environment. Finally, past climates are discussed and potential future climate change and its impact on humans is evaluated. (Same as GEOG 321.) Prerequisite: ATMO 105 or GEOG 104. LEC

ATMO 499 Honors Course in Atmospheric Science (2-3). N Open to students with nine hours of upper level credit in Atmospheric Science, an average of at least 3.5 in all Atmospheric Science courses, and an overall average of at least 3.25. Includes the preparation of an honors paper and its defense before a committee of at least two regular faculty members. LEC

ATMO 505 Weather Forecasting (3). N A first course in synoptic meteorology designed to introduce students to weather analysis and forecasting through the application of hydrodynamic and thermodynamic principles to operational analysis and forecasting. Topics include analysis and interpretation of surface and upper-air observations and data from satellites, radars, and wind profilers; chart and sounding analysis; and three-dimensional, conceptual models of weather systems. The course includes student-led weather briefings and analysis exercises. LEC

ATMO 506 Forecasting Models and Methods (3). N Introduction to basic numerical weather prediction methods. Computer programs are used to apply numerical methods to weather data and to evaluate dynamical processes on numerical grids. Meteorological graphics packages are used to analyze current weather data and numerical model output. Current operational numerical models and output products are discussed. Prerequisite: ATMO 505, MATH 122, and EECS 128 or EECS 258. LEC

ATMO 515 Energy and Water Balance (3). N A study of the distribution and circulation of water in the air-earth system as influenced by atmospheric processes and surface conditions. The solar and terrestrial radiation budget and the water balance at the earth's surface will be applied to agricultural and urban energy and water problems. Prerequisite: ATMO 105 or EECS 138. LEC

ATMO 521 Microclimatology (3). N A study of climatic environment near the earth-atmosphere interface. Consideration of rural climates in relation to agriculture and urban climates as influenced by air pollution and other factors. Emphasis is on physical processes in the lower atmosphere, distribution of atmospheric variables, the surface

energy budget and water balance. (Same as GEOG 521.) Prerequisite: ATMO 105 and MATH 106 or MATH 121. LEC

ATMO 525 Air Pollution Meteorology (3). N A study of background levels and concentrated sources of atmospheric pollution together with considerations of pollution buildup in urban areas as related to particular weather conditions. Inadvertent weather modifications and effects of atmospheric pollution on particular weather events and general climate will be discussed. Prerequisite: ATMO 105, MATH 121, and EECS 138. LEC

ATMO 605 Operational Forecasting (2). N Students enhance their forecasting expertise by preparing forecasts for presentation to the public through a variety of media. Classroom activities include weekly map discussions and analysis of current weather situations. Forecasting topics such as forecast verification, aviation forecast products, severe weather, flash floods and watches and warnings are examined. Credit for ATMO 605, ATMO 606, and ATMO 607 is limited to a total of eight hours, six of which may be counted toward a degree in atmospheric science. Prerequisite: ATMO 505. FLD

ATMO 606 Forecasting Practicum:Television (2). N Practical experience in the analysis and preparation of weather forecasts. Students will use current meteorological data from the National Weather Service network to prepare forecasts for use on television. May be repeated two times for credit. Credit for ATMO 605, ATMO 606, and ATMO 607 is limited to a total of eight hours, six of which may be counted toward a degree in atmospheric science. Prerequisite: ATMO 605. FLD

ATMO 607 Forecasting Intern: National Weather Service (2). N Practical experience working in a National Weather Service forecasting center in analyzing weather data and preparing weather forecasts. May be repeated two times for credit. Credit for ATMO 605, ATMO 606, and ATMO 607 is limited to a total of eight hours, six of which may be counted toward a degree in atmospheric science. Prerequisite: ATMO 605. FLD

ATMO 630 Synoptic Meteorology (3). N Interpretation, development, and analysis of synoptic charts. Prerequisite: ATMO 505 and ATMO 640. LEC

ATMO 634 Physical Climatology (3). N Atmospheric processes are described and discussed in relation to the climate of the earth's surface. Such topics as the greenhouse effect, ozone depletion, and the effect of solar irradiance on climatic change will be included. The physical processes and relationships between various climatic features will be studied. Prerequisite: ATMO 505, BUS 368. LEC

ATMO 640 Dynamic Meteorology (3). N This course introduces the student to the fundamentals of fluid dynamics necessary for understanding large scale atmospheric motions. Fundamental physical laws of conservation of mass, momentum and energy are examined and applied to atmospheric flows. Rotation in the atmosphere is examined quantitatively in terms of both circulation and vorticity. Prerequisite: MATH 223, PHSX 212, prerequisite or corequisite of ATMO 505. LEC

ATMO 642 Remote Sensing (3). This course is designed to prepare students to effectively use remotely sensed data in operational or research settings for further work in this field. Topics include radiation and radiation transfer applied to active and remote sensing; radiative properties of space, sun, earth and atmosphere; instrument design considerations and operational characteristics; inversion methods for temperature or concentration profiling; surface temperature measurement; cloud top height determination; rain rate and wind velocity measurement; severe weather detection; satellite photograph interpretation. Prerequisite: ATMO 680, MATH 581. LEC

ATMO 650 Advanced Synoptic Meteorology (3). N Analysis and interpretation of synoptic weather charts including treatment of numerical weather forecasting. Prerequisite: ATMO 630 and ATMO 660. LEC

ATMO 660 Advanced Dynamic Meteorology (3). N Advanced study of the atmosphere including treatment of the vorticity equation. Prerequisite: ATMO 630, ATMO 640, PHSX 211, and MATH 123. LEC

ATMO 680 Physical Meteorology (3). N This course is designed to enhance the student's understanding of atmospheric processes through the study of these processes at molecular through micro scales. Topics include the properties and behavior of gases; transfer processes; phase change; solar and earth radiation; cloud drop, ice crystal and precipitation formation; atmospheric electricity; stratospheric chemistry. Prerequisite: MATH 223, PHSX 212. LEC

ATMO 690 Special Problems in Meteorology (1-3). N Prerequisite: Nine hours in meteorology. IND

ATMO 697 Seminar for Seniors (1). N Current research in atmospheric science will be discussed. May be repeated for a total of two credit hours. Prerequisite: Senior level in atmospheric science. LEC

ATMO 699 Undergraduate Research (2). U Prerequisite: Twelve credit hours in meteorology. IND

ATMO 720 Atmospheric Modeling (3).

ATMO 727 Atmospheric Storms (3).

ATMO 750 Numerical Weather Prediction (3).

Biochemistry

B.A. and B.S. degrees in biochemistry are offered in the Division of Biological Sciences. See Biological Sciences.

Biological Sciences

Chair: James A. Orr
Haworth Hall, 1200 Sunnyside Ave., Room 2045
Lawrence, KS 66045-7534
(785) 864-4301, www.biology.ku.edu

Undergraduate Director: Christopher Haufler,
vulgare@ku.edu
2045 Haworth Hall, (785) 864-5883, www.kuub.ku.edu
Degrees offered: B.A., B.S., M.A., Ph.D.

The Division of Biological Sciences at KU comprises the Departments of Ecology and Evolutionary Biology and of Molecular Biosciences. Undergraduate degrees, administered by the KU Undergraduate Biology program (KUUB) and the departments, are the B.A. and B.S. in biochemistry, B.A. in biology, B.S. in biology (ecology and evolutionary biology), B.S. in biology (cell biology), B.S. in biology (genetics), B.S. in biology (organismal biology), B.A. in human biology, B.A. and B.S. in microbiology, and B.S. in molecular biosciences (KU Edwards Campus degree).

Graduate degrees, administered by the departments, are the M.A. and Ph.D. in biochemistry/biophysics; botany; ecology and evolutionary biology; entomology; genetics; microbiology; and molecular, cellular, and developmental biology.

Courses for Nonmajors

BIOL 100 Principles of Biology, BIOL 110 Microorganisms in Your World, BIOL 116 Introduction to Evolutionary Biology, BIOL 120 Insects in Your World, and BIOL 215 Evolution and Diversity in Shaping Our World offer nonmajors an introduction to biology and biological facts or concepts. A laboratory, BIOL 102, supplements BIOL 100. Honors sections are offered for students with superior academic records. Except when specifically listed in the major requirements, these courses do not count toward a biology major.

Majors

Bachelor's degree requirements in biology are modified as necessary. Up-to-date requirements are available in the division office and at www.kuub.ku.edu. Eleven major programs are offered in biochemistry, biology, human biology, and microbiology. B.A. in biology students may concentrate in biochemistry, botany, cellular biology, developmental biology, environmental biology, ecology, entomology, genetics, human biology, marine biology, molecular biology, paleontology, physiology, systematics, tropical biology, or zoology (invertebrate or vertebrate). See also Environmental Studies in this chapter.

First- and Second-year Preparation. Because biology study requires preparation in other sciences, students should begin meeting major requirements in the first year. It is particularly important to take CHEM 184 and CHEM 188 in the first year and, for several majors, to take CHEM 624, CHEM 625, CHEM 626, and CHEM 627 in the second year. Ideally, majors should also take BIOL 150 and BIOL 152 (if required) during the first year. Students who have taken BIOL 100 and BIOL 102

and have decided to major in a biological science should take either BIOL 150 or BIOL 152, depending on which is more appropriate for the major and the student's interest. Students should consult a KUUB adviser when deciding how BIOL 100 and BIOL 102 can be integrated with degree options and to obtain permission to substitute BIOL 100 and BIOL 102 for BIOL 150 or BIOL 152.

Requirements for the B.S. Degrees in Biochemistry, Biology, or Microbiology (33 hours). The following general education requirements must be completed by all students pursuing a B.S. in biochemistry, biology, or microbiology. For general requirements for the B.A. degree, see CLAS General Education Degree Requirements in the College of Liberal Arts and Sciences: General Requirements chapter.

English: ENGL 101, ENGL 102 (or ENGL 105), ENGL 203 (or ENGL 205, ENGL 209, ENGL 210, ENGL 211)	9
Western civilization: HWC 204 (or HWC 114) and HWC 205 (or HWC 115)	6
Oral communication/logic: COMS 130/COMS 230, PHIL 148/PHIL 310, or exemption/examination	3
Principal course and/or foreign language requirements (No more than one course from each topical subgroup on the principal course list can be applied toward this requirement):	
One course in the social sciences	3
One course in the humanities	3
Three additional courses in foreign language, social sciences, or humanities	9

In addition to the general College requirements for a B.A. or B.S. degree, the following are required for majors in biological sciences.

Biochemistry Majors

Prospective majors in biochemistry should complete BIOL 150, BIOL 152, CHEM 184, CHEM 188, CHEM 624, CHEM 625, CHEM 626, CHEM 627, MATH 121, and MATH 122 (or MATH 115 and MATH 116) by the end of the second year. The initial courses in biochemistry (BIOL 636, BIOL 637, BIOL 638, and BIOL 639) should be taken during the junior year.

Requirements for the B.A. Biochemistry Major. Students must complete at least 124 hours (45 junior/senior hours) to graduate. At least 84 hours must be non-BIOL courses.

Biochemistry Requirements (25 hours)

BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology	4
BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology	4
BIOL 350 Principles of Genetics	3
BIOL 636 Biochemistry I	3
BIOL 637 Introductory Biochemistry Laboratory	2
BIOL 638 Biochemistry II	3
BIOL 639 Advanced Biochemistry Laboratory	2
BIOL 672 Gene Expression	3
BIOL 599 Senior Seminar in Biochemistry (must be taken in senior year)	1

General Science Requirements (35-39 hours)

CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 624 Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 Organic Chemistry II	3
CHEM 640 Biological Physical Chemistry	3
¹ MATH 121 Calculus I (5) and MATH 122 Calculus II (5) or MATH 115 Calculus I (3) and MATH 116 Calculus II (3) ..	6-10
PHSX 211 and PHSX 212 General Physics I and II (8) or PHSX 114 and PHSX 115 College Physics I and II (8)	8
² Students who plan to attend graduate school should enroll in MATH 121 and MATH 122.	

Elective Requirements (6 hours). Biology courses numbered 400 or higher should be pertinent to the major and selected in consultation with a biochemistry adviser. Suggested courses are BIOL 400 Fundamentals of Microbiology, BIOL 408 Physiology of Organisms, BIOL 416 Cell Structure and Function, BIOL 417 Biology of Development, BIOL 424 Independent Study, BIOL 646 Mammalian Physiology. No more than 3 hours of BIOL 423 Nonlaboratory Independent Study and/or BIOL 424 Independent Study can be applied toward the elective requirement.

Students who intend to major in biology should begin planning their programs during the first year.

Bachelor's degree requirements in biology are modified as necessary to keep them current and appropriate to the discipline. Up-to-date requirements are available in the division office, 2045 Haworth Hall and online at www.kuub.ku.edu.

Requirements for the B.S. Biochemistry Major.

Students must complete at least 124 hours (45 junior/senior hours) to graduate. General College Requirements are described earlier in this section.

Biochemistry Requirements (25 hours)

BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology	4
BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology	4
BIOL 350 Principles of Genetics	3
BIOL 638 Biochemistry II	3
BIOL 639 Advanced Biochemistry Laboratory	2
BIOL 672 Gene Expression	3
BIOL 599 Senior Seminar in Biochemistry (must be taken in senior year)	1

General Science Requirements (44-45 hours)

CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 516 Analytical Chemistry	3
CHEM 624 Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
CHEM 640 Biological Physical Chemistry (3) or CHEM 646 Introduction to Physical Chemistry (4)	3-4
MATH 121 Calculus I (5) and MATH 122 Calculus II (5)	10
PHSX 211 and PHSX 212 General Physics I and II (8) or PHSX 114 and PHSX 115 College Physics I and II (8)	8

Elective Requirements (12 hours). Biology courses numbered 400 or higher should be pertinent to the major and selected in consultation with a biochemistry adviser. Suggested courses are BIOL 400 Fundamentals of Microbiology, BIOL 408 Physiology of Organisms, BIOL 416 Cell Structure and Function, BIOL 424 Independent Study, BIOL 430 Laboratory in Molecular Biology, BIOL 518 Microbial Genetics, BIOL 688 The Molecular Biology of Cancer, or biology courses with a biochemistry course as a prerequisite. No more than 3 hours of BIOL 423 Nonlaboratory Independent Study and/or BIOL 424 Independent Study can be applied toward the elective requirement.

Biology Majors

Requirements for the B.A. Biology Major. Students must complete at least 124 hours (45 junior/senior hours) to graduate.

Biology Core Requirements (24-25 hours)

BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology	4
BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology	4
BIOL 350 Principles of Genetics	3
BIOL 412 Evolutionary Biology	3
BIOL 599 Senior Seminar in Biology (must be taken in senior year)	1
One of the following three courses:	3
BIOL 413 History and Diversity of Organisms (3)	
BIOL 414 Principles of Ecology (3)	
BIOL 550 Introduction to Systematics (3)	
Two of the following five courses:	6-7
BIOL 400 Fundamentals of Microbiology (3)	
BIOL 408 Physiology of Organisms (3)	
BIOL 416 Cell Structure and Function (3)	
BIOL 417 Biology of Development (3)	
BIOL 600 Introductory Biochemistry, Lectures (4)	

General Science Requirements (28-29 hours)

CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 622 Fundamentals of Organic Chemistry (3) or CHEM 624 Organic Chemistry I (3)	3
CHEM 625 Organic Chemistry I Laboratory	2
MATH 121 Calculus I (5) or MATH 115 Calculus I (3) and MATH 116 Calculus II (3) ...	5-6
PHSX 114 and PHSX 115 College Physics I and II (8) or PHSX 211 and PHSX 212 General Physics I and II (8)	8

Elective and Laboratory Requirements (10 hours). Biology courses numbered 400 or higher, including at least 4 hours of laboratory credit, are required. Courses above that have not been used to meet requirements may be used as electives. No more than 3 hours of BIOL 423 Nonlaboratory Independent Study and/or BIOL 424 Independent Study can be applied toward the elective requirement. No more than 2 hours of BIOL 424 can be applied toward the laboratory requirement.

Requirements for the B.S. Degrees in Biology.

Students must complete at least 124 hours (45 junior/senior hours) to graduate. General College requirements are described under Majors in this section.

Cell Biology**General Biology Requirements (21 hours)**

BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology	4
BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology	4
BIOL 350 Principles of Genetics	3
BIOL 408 Physiology of Organisms	3
BIOL 412 Evolutionary Biology	3
BIOL 600 Introductory Biochemistry, Lectures	4

General Science Requirements (31-32 hours)

CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 624 Organic Chemistry I (required for cell biology)	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 Organic Chemistry II	3
MATH 121 Calculus I (5) or MATH 115 Calculus I (3) and MATH 116 Calculus II (3) ...	5-6
PHSX 114 and PHSX 115 College Physics I and II (8) or PHSX 211 and PHSX 212 General Physics I and II (8)	8

Cell Biology Requirements (19 hours)

BIOL 416 Cell Structure and Function	3
BIOL 417 Biology of Development	3
BIOL 426 Laboratory in Cell Biology	3
BIOL 599 Senior Seminar in Cell Biology (must be taken in senior year)	1

Cell biology electives from the following list:

BIOL 400 (or BIOL 401) Fundamentals of Microbiology, BIOL 402 Fundamentals of Microbiology Laboratory, BIOL 435 Introduction to Neurobiology, BIOL 503 Immunology, BIOL 504 Immunology Laboratory, BIOL 512 General Virology, BIOL 513 Virology Laboratory, BIOL 570 Introduction to Biostatistics, BIOL 646 Mammalian Physiology, BIOL 673 Cellular and Molecular Neurobiology, BIOL 688 The Molecular Biology of Cancer, BIOL 690 Control Mechanisms in Development, BIOL 719 Light and Electron Microscopy, BIOL 752 Cell Biology, BIOL 756 Cell and Tissue Culture Laboratory	
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Seminar/Laboratory Requirements (4 hours)

At least 2 hours of biology laboratory credit (numbered 400 or higher) and 2 hours of a seminar/topics course: BIOL 419, BIOL 420, BIOL 701	4
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Ecology and Evolutionary Biology**General Biology Requirements (17-18 hours)**

BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology	4
BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology	4
BIOL 350 Principles of Genetics	3
Two of the following four courses:	6-7
BIOL 408 Physiology of Organisms (3)	
BIOL 416 Cell Structure and Function (3)	
BIOL 417 Biology of Development (3)	
BIOL 600 Introductory Biochemistry, Lectures (4)	

General Science Requirements (25-28 hours)

CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 622 Fundamentals of Organic Chemistry (3) or CHEM 624 Organic Chemistry I (3)	3
MATH 121 Calculus I (5) or MATH 115 Calculus I (3) and MATH 116 Calculus II (3) ...	5-6
Two of the following courses:	7-9
PHSX 114 College Physics I (4)	
PHSX 115 College Physics II (4)	
ATMO 105 Introductory Meteorology (5)	
ECS 138 Introduction to Computing: ____ (3)	

Ecology and Evolutionary Biology Requirements (18 hours)

BIOL 412 Evolutionary Biology	3
BIOL 413 History and Diversity of Organisms	3
BIOL 414 Principles of Ecology	3
BIOL 415 Field and Laboratory Methods in Ecology	2
BIOL 550 Introduction to Systematics	3
BIOL 570 Introduction to Biostatistics	3
BIOL 599 Senior Seminar in Ecology and Evolutionary Biology (must be taken in senior year)	1

Elective and Laboratory Requirements (13 hours)

BIOL courses numbered 400 or higher, including at least 3 hours of laboratory credit and 2 hours of a seminar or topics course (BIOL 419, BIOL 420, BIOL 701)	13
Courses above that have not been used to meet requirements may be used as electives. No more than 3 hours of BIOL 423 Nonlaboratory Independent Study and/or BIOL 424 Independent Study can be applied toward the elective requirement. No more than 2 hours of BIOL 424 can be applied toward the laboratory requirement.	

Genetics**General Biology Requirements (24 hours)**

BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology	4
BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology	4

One of the following three courses:	3
BIOL 400 Fundamentals of Microbiology (3)	
BIOL 408 Physiology of Organisms (3)	
BIOL 417 Biology of Development (3)	
BIOL 412 Evolutionary Biology	3
BIOL 416 Cell Structure and Function	3
BIOL 570 Introduction to Biostatistics	3
BIOL 600 Introductory Biochemistry, Lectures	4
<i>General Science Requirements</i> (28-29 hours)	
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 622 Fundamentals of Organic Chemistry (3) or	
CHEM 624 Organic Chemistry I (3)	3
¹ CHEM 625 Organic Chemistry I Laboratory	2
MATH 121 Calculus I (5) or	
MATH 115 Calculus I (3) and MATH 116 Calculus II (3) ...	5-6
PHSX 114 and PHSX 115 College Physics I and II (8) or	
PHSX 211 and PHSX 212 General Physics I and II (8)	8
¹ Students who plan to attend graduate school (particularly those	
interested in applying molecular techniques) or medical	
school should also enroll in CHEM 626 and CHEM 627.	
<i>Genetics Requirements</i> (15 hours)	
BIOL 350 Principles of Genetics	3
BIOL 405 Laboratory in Genetics	2
BIOL 672 Gene Expression	3
BIOL 599 Senior Seminar in Genetics (must be taken in senior	
year)	1
Two courses from the following list:	6
BIOL 512 General Virology, BIOL 518 Microbial Genetics, BIOL	
595 Human Genetics, BIOL 611 Molecular Systematics and Evolu-	
tion, BIOL 688 The Molecular Biology of Cancer, BIOL 690	
Control Mechanisms in Development, BIOL 692 Developmental	
Genetics, BIOL 743 Population Genetics, BIOL 747 Quantitative	
Genetics, ANTH 340 Human Variation and Evolution, ANTH 442	
Anthropological Genetics, ANTH 652 Population Dynamics	
<i>Elective and Laboratory Requirements</i> (8 hours)	
BIOL courses numbered 400 or higher, including at least 3 hours of	
laboratory credit and 2 hours of a seminar or topics course	
(BIOL 419, BIOL 420, BIOL 701)	8
Courses above that have not been used to meet requirements may be	
used as electives. No more than 3 hours of BIOL 423 Nonlabora-	
tory Independent Study and/or BIOL 424 Independent Study can	
be applied toward the elective requirement. No more than 2 hours	
of BIOL 424 can be applied toward the laboratory requirement.	
<i>Organismal Biology</i>	
<i>General Biology Requirements</i> (18 hours)	
BIOL 150 (or BIOL 151 Honors) Principles of Molecular and	
Cellular Biology	4
BIOL 152 (or BIOL 153 Honors) Principles of Organismal	
Biology	4
BIOL 350 Principles of Genetics	3
BIOL 412 Evolutionary Biology	3
BIOL 600 Introductory Biochemistry, Lectures	4
<i>General Science Requirements</i> (28-29 hours)	
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 622 Fundamentals of Organic Chemistry (3) or	
CHEM 624 Organic Chemistry I (3)	3
CHEM 625 Organic Chemistry I Laboratory	2
MATH 121 Calculus I (5) or	
MATH 115 Calculus I (3) and MATH 116 Calculus II (3) ...	5-6
PHSX 114 and PHSX 115 College Physics I and II (8) or	
PHSX 211 and PHSX 212 General Physics I and II (8)	8
<i>Organismal Biology Requirements</i> (24 hours)	
BIOL 408 Physiology of Organisms	3
BIOL 409 Physiology of Organisms Laboratory	2
BIOL 599 Senior Seminar in Organismal Biology (must be taken	
in senior year)	1
Two of the following three courses:	6
BIOL 413 History and Diversity of Organisms (3)	
BIOL 414 Principles of Ecology (3)	
BIOL 550 Introduction to Systematics (3)	
One of the following two courses:	3
BIOL 416 Cell Structure and Function (3)	
BIOL 417 Biology of Development (3)	
At least one course from each of the following three groups:	9
• <i>Development Group</i> : BIOL 417 Biology of Development, BIOL	
545 Evolution of Development, BIOL 608 Developmental Plant	
Anatomy, BIOL 692 Developmental Genetics, BIOL 710 In-	
sect Development, BIOL 717 Insect Ecology and Behavior	
• <i>Function Group</i> : BIOL 435 Introduction to Neurobiology,	
BIOL 503 Immunology, BIOL 506 Pathogenic Microbiology,	
BIOL 555 General Plant Physiology, BIOL 606 Ecological	
Plant Physiology, BIOL 644 Comparative Animal Physiology,	
BIOL 646 Mammalian Physiology, BIOL 673 Cellular and	
Molecular Neurobiology, BIOL 708 External Morphology of	
Insects, BIOL 716 Insect Physiology and Internal Morphol-	
ogy, BIOL 776 Mammalian Neuroanatomy	

The Division of Biological Sciences at KU comprises the Departments of Ecology and Evolutionary Biology and of Molecular Biosciences.

For information about the KU Edwards Campus, 12600 Quivira Rd., Overland Park, KS 66213-2402, call (from Lawrence): 864-8400 or (913) 897-8400, Web site: <http://edwardscampus.ku.edu>.

- *Diversity Group*: ANTH 440 Introduction to Primates, BIOL 400 Fundamentals of Microbiology, BIOL 493 Introduction to Ornithology, BIOL 494 Introduction to Mammalogy, BIOL 500 Biology of Insects, BIOL 505 Social Insects, BIOL 509 Biology of Spiders, BIOL 510 Comparative Anatomy, BIOL 511 Biology of Spiders Laboratory, BIOL 512 General Virology, BIOL 533 Biology of Fungi, BIOL 540 General Invertebrate Zoology, BIOL 583 Herpetology, BIOL 592 Ichthyology, BIOL 603 Systematic Botany, BIOL 610 Plant Kingdom, BIOL 613 Biology of Honeybees, BIOL 622 Paleontology, BIOL 640 The Biology and Evolution of Fossil Plants, BIOL 709 Immature Insects, BIOL 711 Insect Systematics, BIOL 783 Herpetology, BIOL 792 Ichthyology, BIOL 793 Ornithology
- Elective and Laboratory Requirements* (10 hours)
 BIOL courses numbered 400 or higher, including at least 2 hours of laboratory credit and 1 hour of a seminar/topics course (BIOL 419, BIOL 420, BIOL 701) 10
 Courses above that have not been used to meet requirements may be used as electives. No more than 3 hours of BIOL 423 Nonlaboratory Independent Study and/or BIOL 424 Independent Study can be applied toward the elective requirement. No more than 2 hours of BIOL 424 can be applied toward the laboratory requirement.

Human Biology Majors

The curriculum builds from a broad background of general science courses and adds depth in a set of five specialized disciplines. Courses in the disciplines emphasize topics related to humans and provide a solid understanding of each field of knowledge.

Requirements for the B.A. Human Biology Major.

Students must complete at least 124 hours (45 junior/senior hours) to graduate and must choose one concentration from the five areas: anthropology, applied behavioral science, biology, psychology, speech-language-hearing science.

- Human Biology General Science Requirements** (33 hours minimum)
- | | |
|--|-----|
| ANTH 304 Fundamentals of Physical Anthropology | 3-4 |
| BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology | 4 |
| BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology | 4 |
| MATH 115 and MATH 116 (6) or MATH 121 Calculus I (5) ... | 5-6 |
| CHEM 184 Foundations of Chemistry I | 5 |
| CHEM 188 Foundations of Chemistry II | 5 |
| PHSX 114 College Physics I (4) or PHSX 211 General Physics I (4) ... | 4 |
| *BIOL 570 Introduction to Biostatistics (3) or | |
| PSYC 300 Statistics in Psychological Research (3) or | |
| MATH 365 Elementary Statistics (3) | 3 |
| *BIOL 570 is recommended for the anthropology and biology concentrations. | |

Anthropology Concentration

- (30 hours minimum)
- | | |
|--|-------|
| Organic Chemistry: CHEM 622 Fundamentals of Organic Chemistry (3) or CHEM 624 Organic Chemistry I (3) | 3 |
| CHEM 625 Organic Chemistry I Lab | 2 |
| Cell Biology: BIOL 416 Cell Structure and Function | 3 |
| Genetics: BIOL 350 Principles of Genetics (3) | 3 |
| Seminar: BIOL 599 Senior Seminar in Human Biology | 1 |
| Two of the following four categories: | 18-21 |

Human Anatomy and Physiology

- (12)
- | | |
|---|--|
| BIOL 417 Biology of Development (3) | |
| Nine hours selected from the following courses: ANTH 542 | |
| Biology of Human Nutrition, ANTH 648 Human Osteology, | |
| ANTH 650 Human Reproduction: Biology and Behavior, | |
| BIOL 426 Laboratory in Cell Biology, BIOL 440 Advanced | |
| Human Anatomy (lecture and lab), BIOL 600 Introductory | |
| Biochemistry, Lectures (lab BIOL 637), BIOL 646 Mammalian | |
| Physiology (lab BIOL 647) | |

- Human Population Biology* (9 hours selected from the following courses): ANTH 340 Human Variation and Evolution, ANTH 442 Anthropological Genetics, ANTH 544 Physical Anthropology of American Indians, ANTH 545 Contemporary Health Issues in Africa, ANTH 652 Population Dynamics

- Human Adaptation and Evolution* (9 hours selected from the following courses): ANTH 350 Human Adaptation, ANTH 352 Controversies on the Living and the Dead, ANTH 450 Disease and Adaptation, ANTH 503 Topics in Biological Anthropology, ANTH 549 Human Paleontology: Fossil Apes to Australopithecus, ANTH 550 Human Paleontology: Homo Erectus to Homo Sapiens

- Human Biology and Behavior* (9 hours selected from the following courses): ANTH 359 Anthropology of Sex, ANTH 447 Human Behavioral Genetics, ANTH 461 Introduction to Medical Anthropology, ANTH 754 Biological Bases of Human Behavior, PSYC 370 Brain and Behavior, PSYC 536 The Psychology of Language

Applied Behavioral Science Concentration (32 hours minimum)

- Genetics: BIOL 350 Principles of Genetics 3
 Behavioral Science: ABSC 100 Introduction to Applied Behavioral Science 3
 Development: ABSC 160 Introduction to Child Behavior and Development (3) **or** PSYC 333 Child Psychology (3) 3
 Research Methods: ABSC 308 Research Methods and Application .. 4
 Seminar: BIOL 599 Senior Seminar in Human Biology 1

Two of the following four categories: 18

Applied Behavioral Science (9)

ABSC 304 The Principles and Procedures of Behavior Modification and Therapy (3)

Six hours selected from the following courses: ABSC 150 Community Leadership and ABSC 310/ABSC 311 Building Healthy Communities (prerequisite: ABSC 150), ABSC 350 The Behavioral Treatment of Children with Autism, ABSC 410 Behavioral Approaches in Working with Adolescents, ABSC 437 Independent Living and People with Disabilities

Development: Typical and Atypical (9)

ABSC 632 Advanced Child Behavior and Development (3)

Six hours selected from the following courses: ABSC 535 Developmental Psychopathology, ABSC 565 Applied Developmental Psychology, BIOL 417 Biology of Development, PSYC 510 Infant Behavior and Development

Biology of Behavior (9)

BIOL 408 Physiology of Organisms (3)

Six hours selected from the following courses: ANTH 542 Biology of Human Nutrition, BIOL 435 Introduction to Neurobiology, BIOL 440 Advanced Human Anatomy (lecture and lab), BIOL 454 Brain Diseases and Neurological Disorders, BIOL 646 Mammalian Physiology (lab BIOL 647), PSYC 370 Brain and Behavior, PSYC 380 Brain and Pathology

Evolution, Culture, and Behavior (9)

BIOL 412 Evolutionary Biology (3)

Six hours selected from the following courses: ANTH 341 Human Evolution, ANTH 415 The Rise of Civilization, ANTH 650 Human Reproduction: Biology and Behavior, ANTH 661 Cultural Dynamics, BIOL 410/GEOG 410 Human Biogeography, Honors, BIOL 550 Introduction to Systematics, BIOL 625 Behavioral Ecology and Sociobiology, BIOL 652 Comparative Animal Behavior

All students are encouraged to take BIOL 412 Evolutionary Biology. Although space is limited, an ABSC research practicum course is strongly recommended (e.g., ABSC 499, ABSC 679, ABSC 698). ABSC courses are suggested for fulfilling the requirements, but students are encouraged to explore the offerings of other departments participating in the program.

Biology Concentration (31 hours minimum)

- Organic Chemistry: CHEM 622 Fundamentals of Organic Chemistry (3) **or** CHEM 624 Organic Chemistry I (3) 3
 CHEM 625 Organic Chemistry I Lab 2
 Physics: PHSX 115 College Physics II (4) **or** 4
 PHSX 212 General Physics II (4) 4
 Genetics: BIOL 350 Principles of Genetics 3
 Seminar: BIOL 599 Senior Seminar in Human Biology 1

Two of the following four categories (Course selections must include at least 3 hours of laboratory credit): 18-19

Development and Genetics (9)

BIOL 417 Biology of Development (3)

Six hours selected from the following courses: ABSC/PSYC 535 Developmental Psychopathology; ANTH 762 Human Growth and Development; BIOL 405 Laboratory in Genetics; BIOL 416 Cell Structure and Function; BIOL 595 Human Genetics; BIOL 688 The Molecular Biology of Cancer; PSYC 333 Child Psychology; PSYC 430 Cognitive Development; PSYC 531 Language Development; SPLH 566 Language Development

Anatomy and Physiology (10)

BIOL 646 Mammalian Physiology (3)

Six hours selected from the following courses: ANTH 542 Biology of Human Nutrition; ANTH 648 Human Osteology; BIOL 435 Introduction to Neurobiology; BIOL 440 Advanced Human Anatomy (lab and lecture); BIOL 600 Introductory Biochemistry, Lectures (lab BIOL 637); BIOL 647 Mammalian Physiology Laboratory; HSES 672 Exercise Physiology; PSYC 370 Brain and Behavior; PSYC 380 Brain and Pathology; PSYC 475 Cognitive Neuroscience

Evolution, Ecology, and Adaptation (9)

BIOL 412 Evolutionary Biology (3)

Six hours selected from the following courses: ANTH 340 Human Variation; ANTH 341 Human Variation and Evolution; ANTH 350 Human Adaptation; ANTH 652 Population Dynamics; BIOL 410 Human Biogeography, Honors; BIOL 414 Principles of Ecology; BIOL 668 Evolutionary Ecology; PSYC 555 Evolutionary Psychology

Human Disease (9)

BIOL 400 Fundamentals of Microbiology (3) (lab BIOL 402)

Six hours selected from the following courses: ANTH 450 Disease and Adaptation; BIOL 503 Immunology (lab BIOL 504);

BIOL 506 Pathogenic Microbiology (lab BIOL 507); BIOL 512 General Virology (lab BIOL 513); BIOL 518 Microbial Genetics (lab BIOL 519); BIOL 595 Human Genetics; BIOL 616 Medical Entomology; BIOL 688 The Molecular Biology of Cancer

Psychology Concentration (30 hours minimum)

- Organic Chemistry: CHEM 622 Fundamentals of Organic Chemistry (3) **or** CHEM 624 Organic Chemistry I (3) 3
 CHEM 625 Organic Chemistry I Lab 2

Genetics: BIOL 350 Principles of Genetics 3
 Research Methods: PSYC 310 Research Methods in Psychology 3
 Seminar: BIOL 599 Senior Seminar in Human Biology (1)

Two of the following four categories: 18

Evolution, Adaptation and Health (9 hours selected from the following courses): PSYC 555 Evolutionary Psychology, PSYC 605 Health Psychology, ANTH 340 Human Variation and Evolution, ANTH 341 Human Evolution, ANTH 350 Human Adaptation, ANTH 442 Anthropological Genetics, ANTH 447 Human Behavioral Genetics, ANTH 450 Disease and Adaptation, ANTH 542 Biology of Human Nutrition, BIOL 412 Evolutionary Biology, BIOL 595 Human Genetics

Human Development (9)

PSYC 333 Child Psychology (3)

Six hours selected from the following courses: PSYC 430 Cognitive Development, PSYC 510 Infant Behavior and Development; PSYC 535/ABSC 535 Developmental Psychopathology, PSYC 632/ABSC 632 Advanced Child Behavior and Development, BIOL 417 Biology of Development

Human Cognition and Language (9)

PSYC 318 Cognitive Psychology (3)

Six hours selected from the following courses: PSYC 418 Introduction to Cognitive Science, PSYC 482 Sensation and Perception, PSYC 518 Human Memory, PSYC 531 Language Development, PSYC 536 The Psychology of Language, SPLH 466 Language Science, SPLH 566 Language Development

Neuroscience (9 hours selected from the following courses): PSYC 370 Brain and Behavior, PSYC 380 Brain and Pathology, PSYC 475 Cognitive Neuroscience, ANTH 650 Human Reproduction: Biology and Behavior, BIOL 435 Introduction to Neurobiology, BIOL 454 Brain Diseases and Neurological Disorders, SPLH 320 Introduction to the Neuroscience of Human Communication

Psychology courses are recommended for fulfilling at least some of the requirements, but students are also strongly encouraged to explore offerings of other departments participating in the program.

Speech-Language-Hearing Concentration (29 hours minimum)

- Physics: SPLH 120 The Physics of Speech (4) **or** 4
 PHSX 115 College Physics II (4) 4
 Research Methods: SPLH 660 Research Methods in Speech-Language-Hearing 3
 Genetics: BIOL 350 Principles of Genetics 3
 Seminar: BIOL 599 Senior Seminar in Human Biology 1

Two of the following four categories 18-19

Development and Genetics (9)

BIOL 417 Biology of Development (3)

Six hours selected from the following courses: ANTH 762 Human Growth and Development, BIOL 405 Laboratory in Genetics, BIOL 416 Cell Structure and Function, BIOL 595 Human Genetics, PSYC 333 Child Psychology, PSYC 430 Cognitive Development, SPLH 464 Undergraduate Seminar in Infant Development, SPLH 764 Seminar in Infant Development, SPLH 466 Language Science, SPLH 566 Language Development

Anatomy and Physiology (10)

BIOL 646 Mammalian Physiology (3)

Six hours selected from the following courses: BIOL 440 Advanced Human Anatomy (lecture and lab), BIOL 647 Mammalian Physiology Laboratory, SPLH 662 Principles of Speech Science, SPLH 663 Principles of Hearing Science, HSES 672 Exercise Physiology

Neuroscience (9)

BIOL 408 Physiology of Organisms (3)

Six hours selected from the following courses: BIOL 435 Introduction to Neurobiology, PSYC 370 Brain and Behavior; PSYC 380 Brain and Pathology, PSYC 475 Cognitive Neuroscience, SPLH 320 Introduction to the Neuroscience of Human Communication, SPLH 464 Undergraduate Seminar in Neural Bases of Speech and Voice, SPLH 464 Undergraduate Seminar in Speech Motor Control

Research Practicum (9 hours selected from the following courses): SPLH 464 Circuit Theory and Biomechanics; SPLH 449 Laboratory/Field Work in Human Biology (*Topics*: Orofacial Neurophysiology, Deep Brain Stimulation in Progressive Neuromotor Disease, Perceptual Neuroscience and Functional Brain Imaging; Neuroscience of the Premature Human Infant; Brain-Behavior Mapping of Language); SPLH 499 Directed Study in Speech-Language-Hearing

SPLH courses are recommended for fulfilling the requirements. Research practicum courses must be arranged with the course instructor before enrollment.

Microbiology Majors

Course work allows students to study microbiology as part of their general education and provides a background for teachers. It also prepares students for work in medical, public health, research, and industrial laboratories; for graduate, medical, or dental school; or for the medical technology program.

Requirements for the B.A. Major. Students must complete at least 124 hours (45 junior/senior hours) to graduate.

Microbiology Core Requirements (9-10 hours)	
BIOL 400 Fundamentals of Microbiology	3
BIOL 402 Fundamentals of Microbiology Laboratory	2
BIOL 599 Senior Seminar in Current Progress in Microbiology (must be taken in senior year)	1
One of the following two courses:	3-4
BIOL 516 Microbial Physiology (3)	
BIOL 600 Introductory Biochemistry, Lectures (4)	
General Science Requirements (37-38 hours)	
BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology	4
BIOL 350 Principles of Genetics	3
BIOL 405 Laboratory in Genetics	2
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 622 Fundamentals of Organic Chemistry (3) or	
CHEM 624 Organic Chemistry I (3)	3
CHEM 625 Organic Chemistry I Laboratory	2
MATH 115 Calculus I (3) and MATH 116 Calculus II (3) or	
MATH 121 Calculus I (5)	5-6
PHSX 114 and PHSX 115 College Physics I and II (8) or	
PHSX 211 and PHSX 212 General Physics I and II (8)	8

Note: Students planning graduate study should complete a year of organic chemistry (CHEM 624, CHEM 625, CHEM 626, CHEM 627) and a year of biochemistry (BIOL 636, BIOL 637, BIOL 638).

Microbiology Electives and Laboratory Requirements (15 hours)	
Fifteen hours including three laboratory courses, selected from: ..	15
BIOL 503 Immunology (3)	
BIOL 504 Immunology Laboratory (2)	
BIOL 506 Pathogenic Microbiology (3)	
BIOL 507 Pathogenic Microbiology Laboratory (2)	
BIOL 512 General Virology (3)	
BIOL 513 Virology Laboratory (1)	
BIOL 517 Microbial Physiology Laboratory (2)	
BIOL 518 Microbial Genetics (3)	
BIOL 519 Microbial Genetics Laboratory (2)	

Biology Elective Requirements (3 hours). Biology courses numbered 400 or higher selected in consultation with a microbiology adviser. A course listed above that has not been used to fulfill requirements, or BIOL 423, may be used as an elective.

Requirements for the B.S. Microbiology Major.

General College Requirements are described earlier in this section.

Microbiology Requirements (29 hours)	
BIOL 400 (or BIOL 401) Fundamentals of Microbiology	3
BIOL 402 Fundamentals of Microbiology Laboratory	2
BIOL 416 Cell Structure and Function	3
BIOL 503 Immunology	3
BIOL 504 Immunology Laboratory	2
BIOL 506 Pathogenic Microbiology	3
BIOL 507 Pathogenic Microbiology Laboratory	2
BIOL 512 General Virology	3
BIOL 513 Virology Laboratory	2
BIOL 518 Microbial Genetics	3
BIOL 519 Microbial Genetics Laboratory	2
BIOL 599 Senior Seminar in Current Progress in Microbiology (must be taken in senior year)	1
General Science Requirements (49-50 hours)	
BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology	4
BIOL 350 Principles of Genetics	3
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 624 Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
PHSX 114 and PHSX 115 College Physics I and II (8) or	
PHSX 211 and PHSX 212 General Physics I and II (8)	8
MATH 121 Calculus I (5) or	
MATH 115 Calculus I (3) and MATH 116 Calculus II (3) ...	5-6

BIOL 570 Introduction to Biostatistics (3) or	
MATH 365 Elementary Statistics (3) or	
PSYC 300 Statistics in Psychological Research (3)	3
BIOL 636 Biochemistry I	3
BIOL 638 Biochemistry II	3

Elective Requirements (6 hours). A minimum of 6 hours of biology courses numbered above 400. (No more than 3 hours of BIOL 423 Nonlaboratory Independent Study or BIOL 424 Independent Study combined can be applied toward the elective requirement.)

Molecular Biosciences

Requirements for the B.S. Molecular Biosciences Major (KU Edwards Campus). General College Requirements are described earlier in this section.

Molecular Biosciences Requirements (25 hours)	
BIOL 150 (or BIOL 151 Honors) Principles of Molecular and Cellular Biology	4
BIOL 152 (or BIOL 153 Honors) Principles of Organismal Biology	4
BIOL 350 Principles of Genetics	3
BIOL 400 Fundamentals of Microbiology	3
BIOL 402 Fundamentals of Microbiology Laboratory	2
BIOL 405 Laboratory in Genetics	2
BIOL 416 Cell Structure and Function	3
BIOL 600 Introductory Biochemistry, Lectures	4
General Science Requirements (34 hours minimum)	
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 624 Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
PHSX 114 and PHSX 115 College Physics I and II (8) or	
PHSX 211 and PHSX 212 General Physics I and II (8)	8
MATH 115 Calculus I (3) or MATH 121 Calculus I (5)	3-5
BIOL 570 Introduction to Biostatistics (3) or	
MATH 365 Elementary Statistics (3) or	
PSYC 300 Statistics in Psychological Research (3)	3

Elective Requirements (15 hours). Biology courses numbered 400 or higher, including at least 3 hours of laboratory credit and 2 hours of a seminar/topics course (BIOL 419, BIOL 420, BIOL 701). No more than 3 hours of BIOL 423 Nonlaboratory Independent Study and/or BIOL 424 Independent Study (combined) can be applied toward the elective requirement. No more than 2 hours of BIOL 424 can be applied toward the laboratory requirement.

Double Majors

Students may earn degrees in a biological science and an area outside biology by meeting the requirements of both degree programs and taking at least 15 hours of courses unique to each major.

Student Organizations

Biology clubs such as Tri-Beta allow students to interact with faculty and students while expanding their interest in biology. The Biology Majors Advisory Committee advises the director of undergraduate biology on all undergraduate issues. BMAC provides a forum for concerns and suggestions. For further information on student organizations, visit www.kuub.ku.edu.

Undergraduate Research Opportunities

The division encourages independent study and participation in faculty research programs. Consult an adviser or the KUUB Web site, www.kuub.ku.edu, to find a faculty sponsor for research or independent study. After receiving permission, the student enrolls in that faculty member's section of BIOL 424 Independent Study for the number of hours specified by the faculty member. Three independent study hours can be applied to elective requirements in the major. Independent study is required for graduation with departmental honors. By special arrangement with a faculty member, students may earn independent study credit by participating in research programs offered by other units (e.g., faculty members in the School of Medicine or the Program in Experimental and Applied Ecology).

Field facilities available for research include the 560-acre John H. Nelson Environmental Study Area.

A B.S. degree in molecular biosciences is offered on KU's Edwards Campus. Call the CLAS undergraduate adviser at 864-8659 (from Lawrence) or (913) 897-8659 (outside of Lawrence) for information.

Honors

Majors are eligible to graduate with honors in biology if they fulfill the following requirements:

1. Complete all course work required for the appropriate degree in biology.
2. Achieve a minimum grade-point average of 3.25 overall and 3.5 in the major.
3. Complete BIOL 419 Topics in: Advanced Biology Seminar with a grade of B or higher. (*Exception:* B.A. or B.S. microbiology students must complete one semester of BIOL 599 Senior Seminar in Current Progress in Microbiology with a grade of B or higher.)
4. Complete BIOL 699 Divisional Honors Research Colloquium with a grade of B or higher. (BIOL 599 Senior Seminar in Biochemistry may be substituted for BIOL 699.)
5. Complete an independent research project under the supervision of a faculty member in an area appropriate to the degree sought.
6. Submit an honors thesis to the honors committee once the research is complete and present the results of the completed research at the honors research symposium.

Specific guidelines and intent forms are available in the division office and online at www.kuub.ku.edu. Candidates must declare their intent to graduate with honors, preferably two semesters before graduation.

Study Abroad

Consult an adviser at least four months before undertaking study abroad. Consult the Office of Study Abroad, 108 Lippincott Hall, for information about study in one of the many countries (e.g., Scotland, Australia, Switzerland) with special arrangements with KU.

Advising and Career Counseling

Advising information is available on the undergraduate biology Web site, www.kuub.ku.edu.

Students are encouraged to consult a faculty member as soon as possible to discuss degree options and course choices. Opportunities for independent study, research, field experience, student hourly employment, undergraduate teaching assistantships, and participation in student organizations are available. Students may consult faculty members in their areas of interest or contact the individuals listed here:

Christopher Haufler, Director, Undergraduate Biology,
2045 Haworth Hall, (785) 864-5883, vulgare@ku.edu
Greg Burg, Asst. Director, Advising Coord., Undergraduate Biology,
2045 Haworth Hall, (785) 864-4143, gburg@ku.edu
Jan Elder, Admin. Asst., Undergraduate Biology,
2045 Haworth Hall, (785) 864-5883, jelder@ku.edu
Craig Martin, Chair, Ecology and Evolutionary Biology,
8024 Haworth Hall, (785) 864-5887, ecophys@ku.edu
Erik Lundquist, Chair, Genetics Program,
5049 Haworth Hall, (785) 864-5853, erikl@ku.edu
Kathy Suprenant, Chair, Molecular Biosciences,
2034 Haworth Hall, (785) 864-5780, ksupre@ku.edu

Students pursuing a B.S. degree in molecular biosciences on the KU Edwards Campus should consult the CLAS academic adviser at 864-8659.

Division staff can direct students to faculty members. Brochures and information about curricula, careers, and opportunities in biological sciences and health-related sciences are available in the division office, 2045 Haworth, or the Biology Teaching Resource Center, 1004 Haworth. See the career resource Web site, www.kuub.ku.edu/jobscareers, for help with career choices and job searches.

Biological Sciences Courses by Topics

Anatomy and Histology

BIOL 240 Fundamentals of Human Anatomy
BIOL 241 Human Anatomy Observation Laboratory
BIOL 242 Human Anatomy Dissection Laboratory
BIOL 440 Advanced Human Anatomy
BIOL 510 Comparative Anatomy
BIOL 561 Histological Technique

BIOL 608 Developmental Plant Anatomy
BIOL 776 Mammalian Neuroanatomy

Animal Behavior

BIOL 505 Social Insects
BIOL 625 Behavioral Ecology & Sociobiology
BIOL 652 Comparative Animal Behavior
BIOL 654 Comparative Animal Behavior, Laboratory
BIOL 717 Insect Ecology & Behavior

Biochemistry

BIOL 430 Laboratory in Molecular Biology
BIOL 600 Introductory Biochemistry, Lectures
BIOL 636 Biochemistry I
BIOL 637 Introductory Biochemistry Laboratory
BIOL 638 Biochemistry II
BIOL 639 Advanced Biochemistry Laboratory
BIOL 672 Gene Expression
BIOL 688 The Molecular Biology of Cancer
BIOL 718 Laboratory in Molecular Biology
BIOL 756 Cell & Tissue Culture Laboratory
BIOL 768 Plant Molecular Biology
BIOL 770 Plant Biochemistry
BIOL 775 Chemistry of the Nervous System

Botany

BIOL 533 Biology of Fungi
BIOL 555 General Plant Physiology
BIOL 602 Plant Ecology
BIOL 603 Systematic Botany
BIOL 606 Ecological Plant Physiology
BIOL 607 Field & Laboratory Exercises in Plant Ecology
BIOL 608 Developmental Plant Anatomy
BIOL 610 Plant Kingdom
BIOL 767 The Vegetation of the Earth
BIOL 768 Plant Molecular Biology
BIOL 770 Plant Biochemistry

Cellular Biology

BIOL 200 Basic Microbiology
BIOL 203 Introductory Microbiology Laboratory
BIOL 400 Fundamentals of Microbiology
BIOL 401 Fundamentals of Microbiology, Honors
BIOL 402 Fundamentals of Microbiology Laboratory
BIOL 416 Cell Structure & Function
BIOL 417 Biology of Development
BIOL 426 Laboratory in Cell Biology
BIOL 503 Immunology
BIOL 504 Immunology Laboratory
BIOL 688 The Molecular Biology of Cancer
BIOL 690 Control Mechanisms in Development
BIOL 756 Cell & Tissue Culture Laboratory

Developmental Biology

BIOL 417 Biology of Development
BIOL 545 Evolution of Development
BIOL 688 The Molecular Biology of Cancer
BIOL 690 Control Mechanisms in Development
BIOL 692 Developmental Genetics
BIOL 710 Insect Development

Diversity

BIOL 203 Introductory Microbiology Laboratory
BIOL 400 Fundamentals of Microbiology
BIOL 401 Fundamentals of Microbiology, Honors
BIOL 413 History & Diversity of Organisms
BIOL 500 Biology of Insects
BIOL 510 Comparative Anatomy
BIOL 533 Biology of Fungi
BIOL 540 General Invertebrate Zoology
BIOL 550 Introduction to Systematics
BIOL 603 Systematic Botany
BIOL 610 Plant Kingdom
BIOL 711 Insect Systematics
BIOL 792 Ichthyology
BIOL 793 Ornithology
BIOL 794 Mammalogy
BIOL 795 Biology of Amphibians
BIOL 796 Biology of Reptiles

Ecology

BIOL 414 Principles of Ecology
BIOL 415 Field & Laboratory Methods in Ecology
BIOL 602 Plant Ecology
BIOL 606 Ecological Plant Physiology
BIOL 607 Field & Laboratory Exercises in Plant Ecology
BIOL 620 Physiological Ecology
BIOL 625 Behavioral Ecology & Sociobiology
BIOL 660 Limnology
BIOL 661 Stream Ecology
BIOL 662 Aquatic Ecology Laboratory
BIOL 667 Chemical Communication in Sex, Feeding, & Fighting

BIOL 668 Evolutionary Ecology
 BIOL 717 Insect Ecology & Behavior
 BIOL 745 Laboratory in Experimental Ecology
 BIOL 751 Plant Communities of North America
 BIOL 782 Principles of Biogeography
 BIOL 786 Fundamentals of Tropical Biology

Entomology

BIOL 120 Insects in Your World
 BIOL 500 Biology of Insects
 BIOL 502 Laboratory in Insect Biology & Diversity
 BIOL 505 Social Insects
 BIOL 509 Biology of Spiders
 BIOL 525 Aquatic Entomology
 BIOL 613 Biology of Honeybees
 BIOL 616 Medical Entomology
 BIOL 708 External Morphology of Insects
 BIOL 709 Immature Insects
 BIOL 710 Insect Development
 BIOL 711 Insect Systematics
 BIOL 716 Insect Physiology & Internal Morphology
 BIOL 717 Insect Ecology & Behavior

Evolution

BIOL 116 Introduction to Evolutionary Biology
 BIOL 412 Evolutionary Biology
 BIOL 545 Evolution of Development
 BIOL 611 Molecular Systematics & Evolution
 BIOL 743 Population Genetics
 BIOL 746 Principles of Systematics

Field Courses

BIOL 607 Field & Laboratory Exercises in Plant Ecology
 BIOL 797 Field Course in Vertebrate Paleontology

General Biology

BIOL 100 Principles of Biology
 BIOL 101 Principles of Biology, Honors
 BIOL 102 Principles of Biology Laboratory
 BIOL 103 Principles of Biology Laboratory, Honors
 BIOL 120 Insects in Your World
 BIOL 150 Principles of Molecular & Cellular Biology
 BIOL 151 Principles of Molecular & Cellular Biology, Honors
 BIOL 152 Principles of Organismal Biology
 BIOL 152 Principles of Organismal Biology, Honors
 BIOL 350 Principles of Genetics
 BIOL 352 Heredity & Society
 BIOL 408 Physiology of Organisms
 BIOL 409 Physiology of Organisms, Laboratory
 BIOL 412 Evolutionary Biology
 BIOL 413 History & Diversity of Organisms
 BIOL 414 Principles of Ecology
 BIOL 416 Cell Structure & Function
 BIOL 417 Biology of Development
 BIOL 418 Laboratory in: _____
 BIOL 419 Topics in: Advanced Biology
 BIOL 420 Seminar: _____
 BIOL 424 Independent Study
 BIOL 450 Cancer Biology
 BIOL 460 Plants & Humans
 BIOL 533 Biology of Fungi
 BIOL 595 Human Genetics
 BIOL 599 Senior Seminar: _____
 BIOL 630 Conservation & Wildlife Biology
 BIOL 701 Topics in: _____

Genetics

BIOL 350 Principles of Genetics
 BIOL 352 Heredity & Society
 BIOL 405 Laboratory in Genetics
 BIOL 430 Laboratory in Molecular Biology
 BIOL 512 General Virology
 BIOL 518 Microbial Genetics
 BIOL 519 Microbial Genetics Laboratory
 BIOL 595 Human Genetics
 BIOL 611 Molecular Systematics & Evolution
 BIOL 672 Gene Expression
 BIOL 688 The Molecular Biology of Cancer
 BIOL 690 Control Mechanisms in Development
 BIOL 692 Developmental Genetics
 BIOL 718 Laboratory in Molecular Biology
 BIOL 721 Microbial Genetics
 BIOL 743 Population Genetics
 BIOL 747 Quantitative Genetics
 BIOL 768 Plant Molecular Biology

Courses from outside the Division of Biological Sciences that count toward degrees in genetics include
 ANTH 340 Human Variation & Evolution
 ANTH 442 Anthropological Genetics
 ANTH 652 Population Dynamics

Invertebrate Biology

BIOL 540 General Invertebrate Zoology
 BIOL 621 Medical Parasitology
 BIOL 622 Paleontology

Methods

BIOL 210 Introduction to Clinical Laboratory Sciences
 BIOL 561 Histological Technique
 BIOL 570 Introduction to Biostatistics
 BIOL 571 Introduction to Biostatistics Laboratory
 BIOL 670 Natural History Museum Techniques
 BIOL 702 Laboratory Practice: Radiation Safety Procedures
 BIOL 703 Radioisotopes & Radiation Safety in Research
 BIOL 704 Research Animal Methods
 BIOL 720 Scientific Illustration
 BIOL 785 Museum Management
 BIOL 798 Principles & Practices of Museum Collection Management

Microbiology

BIOL 110 Microorganisms in Your World
 BIOL 200 Basic Microbiology
 BIOL 203 Introductory Microbiology Laboratory
 BIOL 210 Introduction to Clinical Laboratory Sciences
 BIOL 400 Fundamentals of Microbiology
 BIOL 401 Fundamentals of Microbiology, Honors
 BIOL 402 Fundamentals of Microbiology Laboratory
 BIOL 503 Immunology
 BIOL 504 Immunology Laboratory
 BIOL 506 Pathogenic Microbiology
 BIOL 507 Pathogenic Microbiology Laboratory
 BIOL 512 General Virology
 BIOL 513 Virology Laboratory
 BIOL 516 Microbial Physiology
 BIOL 517 Microbial Physiology Laboratory
 BIOL 518 Microbial Genetics
 BIOL 519 Microbial Genetics Laboratory
 BIOL 721 Microbial Genetics

Organismal Biology

BIOL 120 Insects in Your World
 BIOL 240 Fundamentals of Human Anatomy
 BIOL 241 Human Anatomy Observation Laboratory
 BIOL 242 Human Anatomy Dissection Laboratory
 BIOL 413 History & Diversity of Organisms
 BIOL 440 Advanced Human Anatomy
 BIOL 500 Biology of Insects
 BIOL 502 Laboratory in Insect Biology & Diversity
 BIOL 505 Social Insects
 BIOL 509 Biology of Spiders
 BIOL 510 Comparative Anatomy
 BIOL 511 Biology of Spiders Laboratory
 BIOL 525 Aquatic Entomology
 BIOL 533 Biology of Fungi
 BIOL 540 General Invertebrate Zoology
 BIOL 550 Introduction to Systematics
 BIOL 603 Systematic Botany
 BIOL 608 Developmental Plant Anatomy
 BIOL 610 Plant Kingdom
 BIOL 613 Biology of Honeybees
 BIOL 616 Medical Entomology
 BIOL 622 Paleontology
 BIOL 630 Conservation & Wildlife Biology
 BIOL 644 Comparative Animal Physiology
 BIOL 646 Mammalian Physiology
 BIOL 647 Mammalian Physiology Laboratory
 BIOL 652 Comparative Animal Behavior
 BIOL 654 Comparative Animal Behavior, Laboratory
 BIOL 660 Limnology
 BIOL 662 Aquatic Ecology Laboratory
 BIOL 669 Biology of Freshwater Invertebrates
 BIOL 708 External Morphology of Insects
 BIOL 709 Immature Insects
 BIOL 710 Insect Development
 BIOL 711 Insect Systematics
 BIOL 716 Insect Physiology & Internal Morphology
 BIOL 746 Principles of Systematics
 BIOL 751 Plant Communities of North America
 BIOL 776 Mammalian Neuroanatomy
 BIOL 780 Fisheries
 BIOL 781 Fisheries, Laboratory
 BIOL 786 Fundamentals of Tropical Biology
 BIOL 789 Field Course in Entomology
 BIOL 790 Paleontology of Lower Vertebrates
 BIOL 791 Paleontology of Higher Vertebrates
 BIOL 792 Ichthyology
 BIOL 793 Ornithology
 BIOL 794 Mammalogy
 BIOL 795 Biology of Amphibians
 BIOL 796 Biology of Reptiles
 BIOL 797 Field Course in Vertebrate Paleontology

Students interested in allied health professional programs should refer to the chart of Requirements for Admission to Allied Health Professional Programs, pages 228-229.

Special opportunities for undergraduate research in biology are available.

Physiology

BIOL 246 Principles of Human Physiology
 BIOL 247 Principles of Human Physiology Laboratory
 BIOL 408 Physiology of Organisms
 BIOL 409 Physiology of Organisms, Laboratory
 BIOL 435 Introduction to Neurobiology
 BIOL 516 Microbial Physiology
 BIOL 517 Microbial Physiology Laboratory
 BIOL 555 General Plant Physiology
 BIOL 606 Ecological Plant Physiology
 BIOL 620 Physiological Ecology
 BIOL 644 Comparative Animal Physiology
 BIOL 646 Mammalian Physiology
 BIOL 647 Mammalian Physiology Laboratory
 BIOL 673 Cellular & Molecular Neurobiology
 BIOL 716 Insect Physiology & Internal Morphology
 BIOL 775 Chemistry of the Nervous System
 BIOL 777 Integrative & Developmental Neurobiology

Population Biology

BIOL 742 Plant Population Biology
 BIOL 743 Population Genetics

Special Topics

BIOL 419 Topics in: _____
 BIOL 425 Teaching Apprenticeship in Biology
 BIOL 701 Topics in: _____
 BIOL 799 Natural History Museum Apprenticeship

Systematics

BIOL 550 Introduction to Systematics
 BIOL 603 Systematic Botany
 BIOL 611 Molecular Systematics & Evolution
 BIOL 711 Insect Systematics
 BIOL 746 Principles of Systematics
 BIOL 782 Principles of Biogeography

Vertebrate Biology

BIOL 630 Conservation & Wildlife Biology
 BIOL 704 Research Animal Methods
 BIOL 780 Fisheries
 BIOL 781 Fisheries, Laboratory
 BIOL 782 Principles of Biogeography
 BIOL 790 Paleontology of Lower Vertebrates
 BIOL 791 Paleontology of Higher Vertebrates
 BIOL 792 Ichthyology
 BIOL 793 Ornithology
 BIOL 794 Mammalogy
 BIOL 795 Biology of Amphibians
 BIOL 796 Biology of Reptiles
 BIOL 797 Field Course in Vertebrate Paleontology

Related Biology Courses

A biological course from departments outside the Division of Biological Sciences may count toward a B.A. degree (up to 4 hours of credit). This must be a course that would give natural science credit.

● Biological Sciences Courses

BIOL 100 Principles of Biology (3). NB N Intended for non-science majors. The basic concepts of biology at the cellular, organismal, and population levels of organization and their applications to humans and modern society. An honors section, BIOL 101, is offered for students with superior academic records. BIOL 100 and BIOL 102 (or BIOL 101 and BIOL 103, honors) satisfy the College natural science with laboratory requirement. Concurrent enrollment in BIOL 102 is recommended. LEC

BIOL 101 Principles of Biology, Honors (3). NB N Intended for non-science majors with superior academic records. The basic concepts of biology at the cellular, organismal, and population levels of organization and their applications to humans and modern society. Concurrent enrollment in BIOL 103 is recommended. BIOL 101 and BIOL 103 satisfy the College natural science with laboratory requirement. Prerequisite: Membership in the College Honors Program or consent of instructor. LEC

BIOL 102 Principles of Biology Laboratory (1). N Intended for non-science majors. Exercises are designed to give the student hands-on experience with selected topics from the associated lecture course (BIOL 100). An honors laboratory (BIOL 103) is offered for students with superior academic records. Prerequisite: Concurrent enrollment in BIOL 100 is recommended. LAB

BIOL 103 Principles of Biology Laboratory, Honors (1). N Intended for non-science majors with superior academic records. Exercises are designed to give the students hands-on experience with selected topics from the associated lecture course (BIOL 101). Prerequisite: Membership in the College Honors Program or consent of instructor. Concurrent enrollment in BIOL 101 is recommended. LAB

BIOL 110 Microorganisms in Your World (3). NB N A course for students who are not science majors. Designed to acquaint students with some microbial activities which affect their lives. Includes the historical development of microbiology, the basic principles of microbial growth, disinfection, antibiotics, infection, and immunity; and some commercial, agricultural, and industrial uses of microorganisms. Emphasis is on infec-

tious diseases. Not open to students with any credit in microbiology. May not be counted as a prerequisite for any other microbiology course. LEC

BIOL 116 Introduction to Evolutionary Biology (3). N An account of evolutionary thinking from classical to contemporary time. The emphasis is on mainstream developments (Darwinism, Mendelism, the Modern Synthesis, Cultural Ecology), but certain social issues will be examined (social Darwinism, creationism). LEC

BIOL 120 Insects in Your World (3). NB N Students will learn about the global impact of insects on human concerns, both positive (pollination and decomposition) and negative (competition with humans for food, fiber, and shelter, and disease transmission) while developing an appreciation for the ways in which scientists work with real problems involving insects. The course will cover the overwhelming abundance and diversity of insects, and their life history, ecology, behavior, and physiology. This course is intended for both nonbiology and biology majors. Format: two lectures and one discussion section per week. LEC

BIOL 150 Principles of Molecular and Cellular Biology (4). NB N An integrated lecture and laboratory course for biology majors and students planning to take additional courses in biology. This course covers basic biochemistry, cell structure and function, molecular biology, genetics, physiology, and development of plants and animals. Three hours of lecture and two hours of laboratory per week. An honors section (BIOL 151) is offered for students with superior academic records. Concurrent or prior enrollment in CHEM 184 is recommended. LEC

BIOL 151 Principles of Molecular and Cellular Biology, Honors (4). NB N An integrated lecture and laboratory course for students with superior academic records who are biology majors or who plan to take additional courses in biology. This course covers basic biochemistry, cell structure and function, molecular biology, genetics, physiology, and development of plants and animals. Three hours of lecture and two hours of laboratory per week. Concurrent or prior enrollment in CHEM 184 is recommended. Prerequisite: Membership in the University Honors Program or permission of instructor. LEC

BIOL 152 Principles of Organismal Biology (4). NB N An integrated lecture and laboratory course for biology majors and students who plan to take additional courses in biology. This course covers basic elements of plant and animal morphology and physiology, principles of evolution, organismal diversity and phylogeny, population biology, population genetics, ecology, and behavior. Three hours of lecture and two hours of laboratory per week. An honors section (BIOL 153) is offered for students with superior academic records. Prerequisite: BIOL 150 or BIOL 151. LEC

BIOL 153 Principles of Organismal Biology, Honors (4). NB N An integrated lecture and laboratory course for students with superior academic records who are biology majors or planning to take additional courses in biology. This course covers basic elements of plant and animal morphology and physiology, principles of evolution, organismal diversity and phylogeny, population biology, population genetics, ecology, and behavior. Three hours of lecture and two hours of laboratory per week. Prerequisite: BIOL 150 or BIOL 151 and membership in the University Honors Program or consent of instructor. LEC

BIOL 200 Basic Microbiology (3). NB N Introduction to bacteria and viruses. Topics include historical development of microbiology, bacterial structure and growth, enzymes and energy production, disinfection, antibacterial drugs, gene transfer, viral replication, infection and immunity, with emphasis on infectious diseases. Can be substituted for BIOL 201 as a prerequisite for other microbiology courses by consent of department. Not open to those with credit in BIOL 110, BIOL 201, BIOL 400, or BIOL 401. Prerequisite: A course in high school biology and a course in high school chemistry. This course is not recommended for first semester freshmen. LEC

BIOL 203 Introductory Microbiology Laboratory (2). U Laboratory exercises to complement BIOL 200. Prerequisite: BIOL 200. May be taken concurrently. LAB

BIOL 210 Introduction to Clinical Laboratory Sciences (1). U An introductory overview of medical technology as a profession including types of analyses performed, specialties, interrelationships in the health care system and a visit to a clinical laboratory. This course will enable those considering a major in medical technology to have a clear definition of the profession. This course does not meet any degree requirements in biology. No prerequisite. (Same as CLS 210.) LEC

BIOL 215 Evolution and Diversity in Shaping Our World (3). NB N A principal course designed to examine the interaction of organisms and their physical environment — past, present, and future, focusing on the historical development of the biosphere and social implications of future changes. Not open to students with credit in GEOL 121. Two 1-hour lectures and one 1-hour discussion per week. LEC

BIOL 240 Fundamentals of Human Anatomy (3). N Introduction to the gross anatomy of the human body. Covers the spatial arrangement and appearance of structures throughout the body, including visual identification of these structures. Musculoskeletal relationships, and the anatomy of major organ systems, are emphasized. Not intended for biology majors. Prerequisite: BIOL 100, or equivalent. LEC

BIOL 241 Human Anatomy Observation Laboratory (2). U One of the two laboratories in gross anatomy designed to complement BIOL 240.

An overview of KU computing services is available at www.technology.ku.edu. The Budig Hall Computer Lab and the Herb Harris Computer Lab in the Kansas Union are open to all students. For hours, see www.computerlabs.ku.edu/lablist.

KU's 2006-2008 academic calendar appears on page 10.

Emphasizes the three-dimensional appearance and spatial relationships of anatomical structures through supervised observations of pre-dissected human cadavers. Limited to students enrolled in, or seeking admission to, programs that require a human anatomy observation laboratory. Concurrent or prior enrollment in BIOL 240 is required. LAB

BIOL 242 Human Anatomy Dissection Laboratory (3). N One of the two laboratories in gross anatomy designed to complement BIOL 240. Provides an opportunity to develop a comprehensive three-dimensional understanding of anatomical structures and spatial relationships while gaining substantial dissecting experience. Student perform supervised dissection of human cadavers. Limited to students enrolled in, or seeking admission to, programs that require a human anatomy laboratory. Concurrent or prior enrollment in BIOL 240 is required. LAB

BIOL 246 Principles of Human Physiology (3). N An introduction to the physiological and biochemical processes and general physiological principles necessary to sustain life. Organ and organ system processes are emphasized. Intended for students majoring in allied health or sports related curricula who require a course in human physiology. Not intended for biology majors. Prerequisite: BIOL 100 or equivalent. LEC

BIOL 247 Principles of Human Physiology Laboratory (2). U Designed to complement BIOL 246. Uses experiments and simulations to demonstrate laboratory techniques and representative processes in areas of human physiology. Concurrent or prior enrollment in BIOL 246 required. LAB

BIOL 307 Special Problems in Microbiology (1-10). N Students may elect a problem from the following fields: (a) general microbiology; (b) immunology, (c) virology, (d) pathogenic microbiology, (e) microbial biochemistry, (f) microbial genetics, (g) microbial ultrastructure. Prerequisite: Five or more hours of microbiology and at the discretion of the department. IND

BIOL 308 Special Problems in Microbiology, Honors (1-10). N Honors section of Biol 307. Prerequisite: Five or more hours of microbiology and at the discretion of the department. IND

BIOL 311 Undergraduate Research Seminar in Microbiology (1). U For juniors and seniors majoring in microbiology who are enrolled in special problems in microbiology. Students will present their on-going research for discussion and critique. Technique of date presentation including graph constructions, statistical analysis, preparation of slides, and data discussion. Required of students enrolled in the microbiology departmental Honors Program. One meeting per week. Prerequisite: BIOL 307 or BIOL 308 or may be taken concurrently, or consent of instructor. LEC

BIOL 350 Principles of Genetics (3). N Why are related individuals more similar than unrelated individuals and what is the basis for heritable traits? From Mendel's discoveries of the patterns of genetic inheritance, to the study of transmissible hereditary factors, genetics is central to understanding the biological sciences. Topics include molecular genetics and genetic engineering; Mendelian genetics and mapping; control of gene expression; cyto-genetics; epigenetics and non-Mendelian genetics; and population and quantitative genetics. Examples are taken from a wide variety of organisms, including viruses, bacteria, plants, fungi, insects, and humans. Prerequisite: Two semesters of college-level chemistry and BIOL 150 or BIOL 152; or consent of the instructor. LEC

BIOL 352 Heredity and Society (3). N A general course dealing in genetics and its social and political implications with special reference to human genetics; Mendelian genetics, population genetics, medical genetics, chemical basis of heredity. Not open to students who have credit for BIOL 404. Does not meet requirements for a major in biology. Prerequisite: BIOL 100, BIOL 101, BIOL 150, or BIOL 151. LEC

BIOL 400 Fundamentals of Microbiology (3). NB N Fundamental principles of microbiology with emphasis on physical and chemical properties of the bacterial cell; microbial metabolism, cultivation, growth and death of bacteria; microbial genetics, pathogenesis and immunity, industrially important microorganisms. Prerequisite: BIOL 150 or BIOL 151 and two semesters of college chemistry, or consent of the instructor. LEC

BIOL 401 Fundamentals of Microbiology, Honors (3). N Honors section of BIOL 400 and BIOL 612, by application and invitation. Prerequisite: BIOL 151, two semesters of college chemistry, and membership in the University Honors Program, or consent of the instructor. LEC

BIOL 402 Fundamentals of Microbiology Laboratory (2). N Laboratory exercises designed to complement BIOL 400 or BIOL 700. Prerequisite: BIOL 400 or BIOL 612, or BIOL 400 or BIOL 612 concurrently. LAB

BIOL 405 Laboratory in Genetics (2). U A laboratory program which includes written reports on fruit fly crosses, exercises on meiosis, probability and statistics, human genetics and computer simulations of genetics problems. Prerequisite: Concurrent or prior (preferred) enrollment in BIOL 350 or its equivalent. LAB

BIOL 408 Physiology of Organisms (3). N A comprehensive and integrative approach to the study of organisms with an emphasis on physiological, ecological, structural, and behavioral adaptations to differing environments. Prerequisite: BIOL 152, or BIOL 153, and CHEM 184, or consent of the instructor. LEC

BIOL 409 Physiology of Organisms, Laboratory (2). U The laboratory exposes the students to the structure and function of the major groups of animals and plants. Students use basic techniques of biological observation, such as microscopy and dissection, and experimental tech-

niques to analyze plant and animal function. Prerequisite: Concurrent or prior enrollment in BIOL 408, or consent of the instructor. LAB

BIOL 410 Human Biogeography, Honors (3). N Principles of evolution and earth change are used to examine distributions of human populations, wealth, and resources. Readings from the current literature will be included. Lecture and discussion. (Same as GEOG 410.) Prerequisite: BIOL 152 or BIOL 153 or GEOG 107 and membership in the University Honors Program or consent of instructor. LEC

BIOL 412 Evolutionary Biology (3). N Introduction to the patterns and processes of organic evolution. Considered are the history of evolutionary thought, molecular evolution, genetics and microevolution, selection and adaptation, and speciation and macroevolution. Emphasis will be placed on how scientists study and document change over time in natural populations, methods for testing hypotheses about events in evolutionary history, and how discovering evolutionary mechanisms at one level of organization can help to explicate general processes in the natural world. Prerequisite: BIOL 152 and BIOL 350, or consent of the instructor. LEC

BIOL 413 History and Diversity of Organisms (3). N An integrated lecture and laboratory course presenting an overview of the variety and ancestry of life on earth. Using representatives from prokaryotes, protists, plants, fungi, and animals, principles of phylogenetic reconstruction are illustrated and evolutionary trends in the life history features, functional morphology, and structural complexity of extant and extinct organisms are presented. Two hours of lecture and three hours of laboratory per week. Prerequisite: BIOL 152 or BIOL 153, or consent of the instructor. LEC

BIOL 414 Principles of Ecology (3). N Study of the principles underlying species population density changes, community structure and dynamics, biogeochemical cycles, and energy flow and nutrient cycling in ecosystems. Prerequisite: BIOL 152 or BIOL 153, or consent of the instructor. LEC

BIOL 415 Field and Laboratory Methods in Ecology (2). N This course complements BIOL 414 with field trips and laboratory exercises that illustrate the basic concepts of ecology. Topics covered include methodologies for quantitative sampling of terrestrial and aquatic systems, design of field studies, computer simulation and digital data analysis techniques, and scientific writing. Prerequisite: Concurrent or prior enrollment in BIOL 414. A statistics course is recommended. FLD

BIOL 416 Cell Structure and Function (3). N Lecture survey of cell biology, with emphasis on correlating cell architecture with cell function; topics considered include general cell types, cell evolution, macromolecules, membranes, ultra-structure and function of organelles, motility, transport phenomena, and the cell life cycle. Prerequisite: BIOL 150 or consent of instructor. BIOL 350 and CHEM 624 are highly recommended. LEC

BIOL 417 Biology of Development (3). N A general course designed to introduce students to the developmental biology of plants and animals. Emphasis is placed on understanding the concepts of morphogenesis, growth, cell differentiation and aging. Lectures will stress experimental approaches to investigating how single cells develop into complex, multicellular organisms. Prerequisite: BIOL 350 or consent of the instructor. LEC

BIOL 418 Laboratory in: _____ (1-3). N A varied program of laboratory and fieldwork designed to introduce students to investigative approaches in the study of the basic concepts of biological science. Students may enroll in more than one section. Prerequisite: BIOL 100, BIOL 101, BIOL 150, BIOL 151, or exemption. Each section may have additional prerequisites to be determined by instructor. LAB

BIOL 419 Topics in: _____ (1-3). N Courses on special topics in biology, given as need arises. May be lectures, discussions, readings, laboratory, or fieldwork. Students may select sections according to their special needs. IND

BIOL 420 Seminar: _____ (1-3). N The preparation and presentation of oral reports on selected topics from the recent research literature. Students may choose one interest group each semester, but may enroll in a given interest group only once. Enrollment in each interest group limited to twenty students. Prerequisite: Course work varying with the topic of the seminar, or consent of instructor. LEC

BIOL 423 Nonlaboratory Independent Study (1-9). N Original study in discussion or preparation of review papers on selected topics of current interest. May be undertaken only with the consent of the major adviser and of the faculty member who will guide the research. Prerequisite: Consent of instructor. IND

BIOL 424 Independent Study (1-9). N Original study in laboratory or field in selected topics of current research interest. May be undertaken only with the consent of the major adviser and of the faculty member who will guide the research. Prerequisite: Consent of instructor. IND

BIOL 425 Teaching Apprenticeship in Biology (1-9). N Involvement as teaching assistant for a course in Biology. Credit hours shall not exceed the credits offered for the course being taught. May be undertaken only with the consent of the Director of Undergraduate Biology and of the faculty member who will teach the course. Prerequisite: Consent of instructor and Director of Undergraduate Biology. FLD

BIOL 426 Laboratory in Cell Biology (3). N Laboratory exercises will examine the function, organization, and composition of eukaryotic cells. Prerequisite: BIOL 150 and CHEM 184, concurrent or prior enrollment in BIOL 416, or consent of the instructor. BIOL 350 is highly recommended. LAB

BIOL 430 Laboratory in Molecular Biology (3). N Practical experience in recombinant DNA technology and molecular cloning. Prerequisite: BIOL 416 or a course in biochemistry or microbiology. LAB

BIOL 432 Human Behavioral Genetics (3). S A survey of human behavioral genetics for upper division undergraduates. Emphasis is on how the methods and theories of quantitative, population, medical, and molecular genetics can be applied to individual and group differences in humans. Both normal and abnormal behaviors are covered, including intelligence, mental retardation, language and language disorders, communication, learning, personality, and psychopathology. (Same as ANTH 447, PSYC 432, SPLH 432.) Prerequisite: Introductory courses in biology/genetics or biological anthropology and psychology are recommended. LEC

BIOL 435 Introduction to Neurobiology (3). N Basic principles of neurobiology. The focus will be on the nature of communication among nerve cells and their targets. Topics will include the development, structure and function of nerve cells, chemistry of neurotransmission, processing and integration including the cellular and molecular basis of higher functions and neurological disorders. Prerequisite: BIOL 150 or BIOL 151. LEC

BIOL 440 Advanced Human Anatomy (6). N Integrated lecture and laboratory course designed to provide students with a detailed understanding of the structure of the human body. Cadaver dissection will reinforce three-dimensional relationships discussed in lecture and each of the main organ systems will be considered using a regional approach to the body. Not open to students who have taken BIOL 240. Prerequisite: BIOL 152. LEC

BIOL 448 Kansas Plants (3). N A study of common and important non-cultivated Kansas plants, with special emphasis on the ecology of the state; paleoclimatic and paleobotanical background of the central prairies and plains; present climate, physiography and vegetation; poisonous, edible, and medicinal plants; identification by means of simplified keys. Prerequisite: BIOL 100, BIOL 101, BIOL 150, or BIOL 151 and BIOL 152 or BIOL 153. LEC

BIOL 449 Laboratory/Field Work in Human Biology (1-3). N Faculty supervised laboratory or field research for Human Biology majors. Students design and complete a research project in collaboration with a Human Biology faculty member. (Same as ANTH 449, PSYC 449, and SPLH 449.) Prerequisite: Consent of instructor and Human Biology major. FLD

BIOL 450 Cancer Biology (3). N This course is an overview of cancer biology; distribution of cancer in human populations; origins of the physiological changes caused by the disease; cellular biology of neoplastic cells; experimental causation of cancer; molecular changes in neoplastic transformation of cells; genetic aspects of cancer; introduction to cancer epidemiology and cancer causation in human beings; examples of studies of causation of cancer in human beings (by radiation, chemicals, viruses, heredity, occupation, and lifestyle factors which include aspects of diet and food preparation, smoking tobacco, reproductive and sexual behavior, etc.) and the relative significance of environmental versus intrinsic factors in causation. Prerequisite: A course in general biology and a course in general chemistry. LEC

BIOL 454 Brain Diseases and Neurological Disorders (3). N Major brain diseases and neurological disorders such as stroke, Alzheimer's Disease, Parkinson's Disease, Huntington's Disease, Multiple Sclerosis, Epilepsy, Schizophrenia, etc., will be discussed in terms of the etiology, molecular, and cellular basis of potential therapeutic interventions. Graduate students are required to present original research paper assigned by the instructor to the class in addition to other assignments for all the students enrolled. Prerequisite: BIOL 150, or consent of instructor. LEC

BIOL 460 Plants and Humans (3). N A study of the interrelationships between plants and humans and their significance to the origin of cultivated plants, plant improvement, and utilization. Lecture and laboratory. Not open to students with credit in BIOL 456. Prerequisite: BIOL 100, BIOL 101, BIOL 152, BIOL 153, or ANTH 104. LEC

BIOL 461 Biodiversity of the Rainforest (3). N An introduction to birds, bats, and plants of the rainforest, with emphasis on general characteristics of each of the taxa and their relationship to the tropical ecosystem, as well as their particular anatomy, ecology, behavior, and diversity. Field work focuses on identification of birds and bats (at species level), plants (at family level), and on capturing and preservation techniques. Taught in Golfito, Costa Rica. Contact Undergraduate Biology, or the Office of Study Abroad. Prerequisite: BIOL 150 or BIOL 151 and BIOL 152 or BIOL 153, or equivalent. Fall and spring semester courses are taught in Spanish; therefore, four semesters of Spanish are required. Summer courses are taught in English. LEC

BIOL 462 Introduction to the Natural History of Costa Rica (4). N A field study of structures and dynamics of relationships in aquatic and terrestrial communities in Costa Rica. It covers geography, geol-

ogy, and biology. Biological interactions like mutualism, parasitism, and epiphytism between organisms, and the habitat concept and its relation with the environment will be studied. Weekly field trips.

Taught in Golfito, Costa Rica. Contact Undergraduate Biology, or Office of Study Abroad. Prerequisite: BIOL 150 or BIOL151 and BIOL 152 or BIOL 153, or equivalent. Fall and spring semester courses are taught in Spanish; therefore, four semesters of Spanish are required. Summer courses are taught in English. LEC

BIOL 463 Introduction to Ornithology of the Tropics (4). N A theory and practice course on birds. Course covers morphology, reproduction, evolution, ecology, and behavior, as well as systematics of Costa Rican birds. Course includes field work on bird identification. Taught in Golfito, Costa Rica. Contact Undergraduate Biology, or the Office of Study Abroad. Prerequisite: BIOL 150 or BIOL 151 and BIOL 152 or BIOL 153, or equivalent. Fall and spring semester courses are taught in Spanish; therefore, four semesters of Spanish are required. Summer courses are taught in English. LEC

BIOL 464 Mammals of the Neotropics (4). N Course covers mammal morphology, systematics, reproduction, and evolution, with emphasis on the mammals of the Neotropics. Course includes field work on observation and capture techniques of day and night mammals, and identification and preservation of mammal tracks. Taught in Golfito, Costa Rica. Contact Undergraduate Biology, or the Office of Study Abroad. Prerequisite: BIOL 150 or BIOL 151 and BIOL 152 or BIOL 153, or equivalent. Fall and spring semester courses are taught in Spanish; therefore, four semesters of Spanish are required. Summer courses are taught in English. LEC

BIOL 465 Marine Biology (4). N A theory and practice course on biotic relations, the role of organisms and marine biodiversity. It covers basic marine principles and physico-chemical processes (temperature, salinity, dissolved oxygen, nutrients, and pH in the water) and their effect on the abundance, and horizontal and vertical distribution of marine organisms. Course includes field work on data collection. Taught in Golfito, Costa Rica. Contact Undergraduate Biology, or the Office of Study Abroad. Prerequisite: BIOL 150 or BIOL 151 and BIOL 152 or BIOL 153, or equivalent. Fall and spring semester courses are taught in Spanish; therefore, four semesters of Spanish are required. Summer courses are taught in English. LEC

BIOL 466 Marine Ecology (4). N A theory and practice course about coastal, benthonic, and plankton communities. It covers faunal and floral group dynamics as well as morphological and physiological adaptations of coastal communities. Distribution, biomass, density, and community structures of benthonic communities. Composition, distribution, and ecological relationships between zooplankton (animals) and phytoplankton (plants) organisms. Course includes field work on data collection. Taught in Golfito, Costa Rica. Contact Undergraduate Biology, or the Office of Study Abroad. Prerequisite: BIOL 150 or BIOL 151 and BIOL 152 or BIOL 153, or equivalent. Fall and spring semester courses are taught in Spanish; therefore, four semesters of Spanish are required. Summer courses are taught in English. LEC

BIOL 467 Marine Resources Management (3). N A theory and practice course which focuses on the techniques used for monitoring the growth of fish, shrimp, and mollusks, with the purpose of understanding the variables that could produce the best yields. The course covers ecology (population growth, competition, predators, ecosystem dynamics), and fishery biology (growth, fish yield, capture efficiency) applicable in the field experiments. Taught in Golfito, Costa Rica. Contact Undergraduate Biology, or the Office of Study Abroad. Prerequisite: BIOL 150 or BIOL 151 and BIOL 152 or BIOL 153, or equivalent. Fall and spring semester courses are taught in Spanish; therefore, four semesters of Spanish are required. Summer courses are taught in English. LEC

BIOL 468 Fresh Water Ecology (4). N A theory and practice class on the study of rivers and lagoons. It includes systematics of rivers, lagoons, and reservoirs. Course includes theory and field work to monitor physical (stream topography, flow, edge vegetation), chemical (nutrients, temperature, pH levels, dissolved oxygen), and biological (collecting and identification of aquatic insects) conditions in rivers. Taught in Golfito, Costa Rica. Contact Undergraduate Biology, or the Office of Study Abroad. Prerequisite: BIOL 150 or BIOL 151 and BIOL 152 or BIOL 153, or equivalent. Fall and spring semester courses are taught in Spanish; therefore, four semesters of Spanish are required. Summer courses are taught in English. LEC

BIOL 477 Ecology and Global Change (3). N Humans influence both natural and managed ecosystems. This course studies the effects of climate change, land-use change, and reductions in biodiversity on ecosystems. Emphasis is placed on how biological and physical processes may be perturbed by human influences. Topics include the greenhouse effect, species extinctions, human disease expansion, and the effects of global change on agricultural productivity. A combination of lectures and discussion address issues from a scientific basis and link these ecological issues to our everyday lives and society as a whole. Prerequisite: BIOL 152, BIOL 153, or equivalent, or permission of instructor. LEC

BIOL 493 Introduction to Ornithology (3). N A lecture course on the biology, evolution, and diversity of birds. Prerequisite: BIOL 152, or BIOL 153, or permission of instructor. LEC

A listing of Biological Sciences Courses by Topics appears on pages 95-97.

To find a biology faculty sponsor for research or independent study, consult a faculty adviser, the Faculty Research Directory available in 2045 Haworth Hall, or the KUUB Web site, www.kuub.ku.edu.

BIOL 494 Introduction to Mammalogy (3). A study of mammals, with emphasis on evolution, biogeography, systematics, and natural history. Lectures, laboratory, and field study. Prerequisite: BIOL 152 or 153 or permission of instructor. LEC

BIOL 500 Biology of Insects (3). N Lectures and demonstrations providing an introduction to the study of insects, including general classification, structure, phylogeny, identification, development, physiology, behavior, ecology, and relations to human affairs. Prerequisite: BIOL 152, 153, or equivalent, or permission of instructor. LEC

BIOL 502 Laboratory in Insect Biology and Diversity (2). U Laboratory and field studies of insects, emphasizing their diversity, classification, ecological relationships, morphology, and behavior. Course provides practical application of principles covered in BIOL 500. Prerequisite: Concurrent or prior enrollment in BIOL 500 or the equivalent. LAB

BIOL 503 Immunology (3). N Lectures on the nature and mechanisms of natural and acquired resistance including humoral and cellular immunity. Characteristics of antigens and antibodies and of their interaction; ontogeny and cellular basis of immune responsiveness, hypersensitivity; specific immunologic tolerance. Not open to those with credit in BIOL 524. Prerequisite: BIOL 400 or BIOL 401, or consent of instructor. LEC

BIOL 504 Immunology Laboratory (2). U Laboratory designed to complement BIOL 503. Prerequisite: BIOL 503, or BIOL 503 concurrently. LAB

BIOL 505 Social Insects (3). N Lectures and laboratory demonstrations on presocial and social insects, specifically termites, ants, wasps, and bees. Emphasis will be placed on evolution of social behavior and the place of social insects in sociobiology. Prerequisite: BIOL 152, BIOL 153, or equivalent. LEC

BIOL 506 Pathogenic Microbiology (3). N Lectures. Characteristics and mechanisms of pathogenic microorganisms and disease processes. Elements of host-parasite interactions. Not open to freshmen or sophomores. Prerequisite: BIOL 503, or consent of instructor. LEC

BIOL 507 Pathogenic Microbiology Laboratory (2). U Laboratory to complement BIOL 506. Cultivation of pathogenic microorganisms, diagnostic procedures, and experiments to demonstrate various aspects of microbial pathogenicity and host responses. Prerequisite: BIOL 402 and BIOL 506 (or concurrent enrollment) or consent of instructor. LAB

BIOL 509 Biology of Spiders (2). N An introduction to the evolution, anatomy, physiology, behavior, and ecology of spiders and other arachnids. Special topics include the action of spider venoms; the composition and uses of silk; courtship and mating; predation; social behavior; and the role of spiders in natural and agricultural ecosystems. Concurrent enrollment in BIOL 511 is encouraged. Prerequisite: BIOL 152, BIOL 153 or permission of instructor. LEC

BIOL 510 Comparative Anatomy (5). N Structure, function, and evolution of the vertebrates. Lectures and laboratory study. A course designed for zoologists. Prerequisite: BIOL 100, BIOL 101, BIOL 150, or BIOL 151 and BIOL 152 or BIOL 153. LEC

BIOL 511 Biology of Spiders Laboratory (1). N Topics will include comparative biology of arachnid orders (spiders, scorpions, harvestmen, mites, and others), external and internal anatomy of spiders, identification of common spider families and genera, and spider behavior. Students will be required to make a small collection (collect, preserve, and identify specimens). Prerequisite: BIOL 509; concurrent enrollment is preferred. LAB

BIOL 512 General Virology (3). N Lectures and discussions covering the basic nature and characteristics of viruses from a general biological point of view: viruses of bacteria, animals and plants, physical-chemical properties; host cell-viral interactions; mode of replication of DNA and RNA viruses, tumor viruses. Prerequisite: BIOL 400, BIOL 401 or consent of instructor. LEC

BIOL 513 Virology Laboratory (2). U Experiments involving cultivation, quantitation, and identification of animal viruses, continuous cell culture and primary chicken embryo culture techniques. Molecular biology techniques are used to demonstrate the steps in virus replication. The value of viruses as tools to understand normal cellular processes is emphasized in experiments which demonstrate the relative simplicity of viruses and the relative complexity of eukaryotic cells. Demonstrations include transformation of cells by tumor viruses and electron microscopy of virus particles. Prerequisite: BIOL 402 and BIOL 512, or consent of instructor. LAB

BIOL 516 Microbial Physiology (3). N Elements of microbial physiology. Carbohydrate metabolism; enzymes and coenzymes; microbial nutrition; quantitative problems in microbial physiology; a survey of microbial metabolic types. Prerequisite: BIOL 400 or BIOL 612 and BIOL 402, and five hours of organic chemistry. LEC

BIOL 517 Microbial Physiology Laboratory (2). U Laboratory designed to complement BIOL 516. Prerequisite: BIOL 516, or BIOL 516 concurrently. LAB

BIOL 518 Microbial Genetics (3). N Bacteria and viruses as models of genetic systems. Mutagenesis and repair. Transformation, transductions, and recombination. Molecular biology of gene expression. Prerequisite: An introductory microbiology course. LEC

BIOL 519 Microbial Genetics Laboratory (2). U Laboratory designed to complement BIOL 518. Prerequisite: BIOL 402, BIOL 518, or BIOL 518 concurrently. LAB

BIOL 525 Aquatic Entomology (5). N Designed to enable the student to develop skill in the area of identification of aquatic insects and to gain a detailed comprehension of their community structure and dynamics. The external morphology of all aquatic orders will be covered, followed by consideration of specific physiological and behavioral adaptations that facilitate an aquatic existence. Four hours of lecture and three hours of laboratory per week. Prerequisite: BIOL 414 or BIOL 500. LEC

BIOL 533 Biology of Fungi (4). N A study of the major groups of fungi from slime molds to mushrooms. Emphasis on their activities in natural substrates, isolation techniques, parasitic and mutualistic relationships with other organisms, uses in research, industrial applications, production of mycotoxins and poisons, and physiological, genetic and reproductive behavior. Lectures, laboratory, and field trips. Prerequisite: BIOL 100, BIOL 101, BIOL 150, or BIOL 151 and BIOL 152 or BIOL 153. LEC

BIOL 536 Cell Structure and Function (Honors) (3). N Lecture and discussion course for highly qualified and motivated students to provide a more thorough treatment of the topics covered in BIOL 416. Students enrolled in BIOL 536 attend the BIOL 416 lectures and an additional 1.5-2.0 hour tutorial period devoted to the discussion of advanced topics and the development of problem solving skills. Exams will be separate from BIOL 416. Open to students in the Honors program or by permission of instructor. Prerequisite: BIOL 350. LEC

BIOL 540 General Invertebrate Zoology (4). N Phylogeny, physiology, and embryology; evolutionary processes; characteristics of major ecological groupings. Laboratory will consider major taxonomic categories with emphasis on functional morphology and its evolutionary modifications. Prerequisite: BIOL 152 or BIOL 153. LEC

BIOL 545 Evolution of Development (3). N An advanced course designed to expose students to evolutionary change in the developmental patterning of plant and animal form. This course integrates multiple biological disciplines including phylogenetics, comparative morphology, molecular evolution and developmental genetics to explore biodiversity at a mechanistic level. Topics range from issues surrounding homology assessment to empirical examples of how changes in gene expression or function may have shaped morphological diversity. Prerequisite: BIOL 350 or equivalent. LEC

BIOL 550 Introduction to Systematics (3). N Basic elements of systematic theory and practice; discussion of the needs and aims of taxonomy; species and speciation; principles of nomenclature and classification; phylogenetic reconstruction; evolutionary processes and patterns of species diversity; analysis of systematic evidence; construction of keys, synopses, monographs, and revisions. Prerequisite: BIOL 152 or BIOL 153. Not intended for graduate students planning to specialize in systematics. LEC

BIOL 555 General Plant Physiology (3). N The principal physiological processes of higher plants including photosynthesis, respiration, water relations, mineral nutrition, and factors associated with morphogenesis. Prerequisite: BIOL 408 or consent of instructor. LEC

BIOL 561 Histological Technique (2). N Training in the preparation of tissues for study with the light microscope. Both paraffin and plastic embedments will be used. Prerequisite: Concurrent or prior enrollment in BIOL 560. LAB

BIOL 570 Introduction to Biostatistics (3). N Statistical concepts related to biological problems. Topics include the scientific method, data representation, descriptive statistics, elementary probability distributions, estimation and hypothesis testing, emphasizing the analysis of variation. Prerequisite: College algebra and ten hours of natural science. LEC

BIOL 571 Introduction to Biostatistics Laboratory (1). U Introductory statistical analyses on microcomputers. Introduction to the operating system; data entry and export; simple graphs and exploratory data analysis; descriptive statistics; sampling; point and interval estimation; one and two sample t-tests; Chi-square; regression and correlation; analysis of variance; and nonparametric methods. Prerequisite: BIOL 570 or equivalent. LAB

BIOL 583 Herpetology (3). N A study of amphibians and reptiles. This lecture course will explore the taxonomic diversity of amphibians and reptiles, and current areas of active research in herpetology. Topics will be considered within a phylogenetic framework, and include discussion on systematics, biogeography, tetrapod origins, skeletal systems, growth, circulatory system, locomotion, thermal and water regulation, hibernation, ecology, sexual behavior, parental care, and mimicry. (Same as BIOL 783.) LEC

BIOL 590 Principles of Embryology (3). N An introduction to the general principles underlying invertebrate and vertebrate development plus a consideration of the major features of vertebrate organogenesis. Lecture and laboratory. Prerequisite: BIOL 408. LEC

BIOL 592 Ichthyology (4). N A study of fishes. Lecture topics include the structure and adaptations of fishes to the aquatic environment and a survey of major fish groups with emphasis on their evolution and biogeography. Laboratory topics include a survey of fish diversity using specimens and the use of keys to identify fishes, with emphasis

on the Kansas fish fauna. This course meets with BIOL 792. Students taking this course at the 700 level will have additional work required of them. Prerequisite: BIOL 152 and/or BIOL 413. LEC

BIOL 594 Forest Ecosystems (3). Students learn basic concepts of forest productivity, forest water relations, forest hydrology, nutrient cycling, through soils and vegetation, nutrient uptake, carbon cycling, decomposition, linkages to aquatic ecosystems, and agents of disturbance to these cycles. The class spends a significant part of the semester exploring forest soil profiles and the challenges they present to different forest ecosystems. We discuss the function of forested ecosystems in a global context and identify and understand smaller-scale processes that drive forest function. Prerequisite: CHEM 188 and BIOL 414. LEC

BIOL 595 Human Genetics (3). N A lecture course providing balanced coverage of Mendelian and molecular genetics of humans; includes discussions and presentations on current issues in human and medical genetics. Prerequisite: BIOL 350. LEC

BIOL 599 Senior Seminar: ____ (1). N A synthesis and discussion of current trends in a discipline or disciplines related to one of the degrees offered in the biological sciences. Emphasis is placed on providing seniors with an appreciation of the discipline's state-of-the-art and on developing skills for success in the next stage of a career in the biological sciences. Topics depend on the associated degree program. Prerequisite: Must be taken in the final year of a degree and students must have completed most of the course work required for one of the degrees in the biological sciences. LEC

BIOL 600 Introductory Biochemistry, Lectures (4). N Designed to offer the essentials of the chemistry of the constituents of living organisms and the changes these constituents undergo (during life processes) in the human body and other living forms. Prerequisite: BIOL 150 or BIOL 151 and one semester of organic chemistry. LEC

BIOL 602 Plant Ecology (3). N Introduction to basic concepts, focused at community and species level. Architectural ecomorphology of plants and their physiological responses to physical factors: solar radiation, climate, and soils. Plant succession as an interaction among species differing in ecomorphology and life style. Classification and ordination of plant communities: practice and theory. Other topics include: species diversity and lognormal distribution as to abundance classes; species/area relations and theory of island biogeography; allelochemic defenses; genecology; paleoecology. Prerequisite: BIOL 414 or consent of instructor. Concurrent enrollment in parallel laboratory, BIOL 607, recommended. LEC

BIOL 603 Systematic Botany (3). N A lecture/laboratory course providing hands-on experience with plant identification, a history of plant classification, the principles of nomenclature and character analysis, the basics of systematics theory, and a phylogenetically-oriented introduction to vascular plant diversity. Prerequisite: BIOL 413 or equivalent. LEC

BIOL 606 Ecological Plant Physiology (3). N Physiological responses of higher plants to environmental factors are discussed. Major topics are: water relations, heat transfer, resistance to water and temperature stress, dormancy, photoperiodism, photosynthesis and respiration under natural conditions, and effects of environmental pollution. Prerequisite: BIOL 408 or consent of instructor. LEC

BIOL 607 Field and Laboratory Exercises in Plant Ecology (2). U Introduction to quantitative analysis of plant communities and correlated environmental parameters; field and/or laboratory measurements of ecophysiological traits and comparative ecomorphology of principal species. Prerequisite: BIOL 414. Concurrent enrollment in parallel lecture, BIOL 602, recommended, but not required. LAB

BIOL 608 Developmental Plant Anatomy (4). N A study of the anatomy of the vascular plants, using both traditional and modern techniques. The origin and structure of cell types and tissues of the various plant organs along with their ecological, phylogenetic, taxonomic and functional significance. Two one-hour lectures and 2 three-hour laboratory sessions each week. Prerequisite: BIOL 152 or BIOL 153; BIOL 413; or consent of instructor. LEC

BIOL 609 Current Progress in Microbiology (1). U A seminar course which will focus on current research in microbiology. A term paper will be required of each student. May be repeated for credit. Required of all majors in the senior year. Prerequisite: Two courses in microbiology. LEC

BIOL 610 Plant Kingdom (4). N A comparative morphological survey of the structural diversity, life cycles, origins, and patterns of evolution in the two basic groups of the plant kingdom, the bryophytes (mosses and liverworts) and the tracheophytes (ferns, gymnosperms, and flowering plants). Three one-hour lectures and one three-hour laboratory each week. Prerequisite: BIOL 152 or BIOL 153 and BIOL 413 or consent of instructor. LEC

BIOL 611 Molecular Systematics and Evolution (4). N An introduction to the use of molecular data in systematics and population biology. Topics include: evolution of genes and proteins; properties of mitochondrial DNA, chloroplast DNA, ribosomal RNA genes, protein-coding genes, and repetitive DNAs; laboratory methods for data collection; and data analysis. Prerequisite: BIOL 350. BIOL 550 or equivalent is recommended. LEC

BIOL 612 Fundamentals of Microbiology (3). NB N Lectures. Fundamental principles of microbiology with emphasis in physical and chemi-

cal properties of the bacterial cell; microbial metabolism, cultivation, growth and death of bacteria; microbial genetics; pathogenesis and immunity, industrially important microorganisms. Meets with BIOL 400, but students will be given additional and more advanced assignments, and will carry higher expectations. Prerequisite: BIOL 150 or BIOL 151 and two semesters of college chemistry, or consent of instructor. LEC

BIOL 613 Biology of Honeybees (3). N Social organization, evolution, behavior, morphology, communication, pollination biology, and ecology of honeybees. Experience will be gained with colony dynamics and behavior while working with bees in the field. Prerequisite: BIOL 152, BIOL 153, or consent of instructor. LEC

BIOL 616 Medical Entomology (3). N A study of the major human diseases transmitted by arthropods with emphasis on the biology and ecology of vectors, vector feeding mechanisms as related to disease transmission, epidemiology of arthropod-borne diseases, and the impact of arthropod-borne diseases on humans. Laboratory work on recognition of vector species, information sources, and use of taxonomic keys. Prerequisite: BIOL 152 or BIOL 153 and a course in microbiology or consent of instructor. LEC

BIOL 620 Physiological Ecology (3). N Ecological consequences of physiological characteristics of animals. Topics include water balance, temperature regulation, energy utilization, physiological variation, life histories, historical factors, and body size. Prerequisite: BIOL 408 or equivalent. LEC

BIOL 622 Paleontology (3). N A study of the structure and evolution of ancient life; the nature and diversity of life through time; the interactions of ancient organisms with their environments and the information that the study of fossils provides about ancient environments; the use of fossils to determine the ages of rocks and the timing of past events in earth history; and the patterns of extinction through time. (Same as GEOL 521.) Prerequisite: BIOL 100, BIOL 101, BIOL 152, BIOL 153, GEOL 105, or GEOL 304. LEC

BIOL 623 Paleontology Laboratory (1). U Laboratory course in the study of fossils with emphasis on the practice of paleontology and the morphology of ancient organisms. (Same as GEOL 523.) LAB

BIOL 625 Behavioral Ecology and Sociobiology (3). N The role of natural selection in animal behavior, and the influence of behavior on population biology and social dynamics of animal species. Topics include: game theory and optimization as applied to animal behavior; altruism, cooperation and competition; kin recognition and interactions; group formation and dynamics, dominance, aggression, and territoriality; feeding strategies; reproductive behavior including mate choice, parental care, and mating systems. Prerequisite: BIOL 152; either BIOL 350, BIOL 412 or BIOL 414 recommended; or consent of instructor. LEC

BIOL 630 Conservation and Wildlife Biology (3). N Examination of the concepts and processes involved in conservation of plant and animal populations and communities. Topics to be covered include conservation of endangered species, problems with invasions of exotic species and habitat fragmentation, wildlife management, and design of nature reserves. Prerequisite: BIOL 414, BIOL 412 strongly recommended. LEC

BIOL 636 Biochemistry I (3). N First semester of a two-semester lecture course in introductory biochemistry. Emphasis upon the physical structure of macromolecules and membranes, enzyme structure/function, and enzyme kinetics. Prerequisite: CHEM 626 or consent of instructor. LEC

BIOL 637 Introductory Biochemistry Laboratory (2). U The laboratory portion of BIOL 600 or 636. Experiments have been selected to introduce the student to cell constituents and biochemical reactions. One four-hour laboratory and one-hour lecture each week. Prerequisite: BIOL 600 or BIOL 636, or concurrent enrollment. LAB

BIOL 638 Biochemistry II (3). N Second semester of a two-semester lecture course in introductory biochemistry. Emphasis upon the metabolism of carbohydrates, lipids, amino acids, proteins, and nucleic acids. Prerequisite: BIOL 636. LEC

BIOL 639 Advanced Biochemistry Laboratory (2). U The laboratory portion of BIOL 638. One four-hour laboratory and a one-hour lecture each week. Experiments have been selected to familiarize students with experimental biochemical techniques using state-of-the-art methodology. Prerequisite: BIOL 637 and 638 (BIOL 638 may be taken concurrently). LAB

BIOL 640 The Biology and Evolution of Fossil Plants (3). N A lecture course in which fossil plants, protists and fungi are examined throughout geologic time. Emphasis will be directed at paleoecology, biogeography and the stratigraphic distribution and composition of ancient floras. (Same as GEOL 528.) Prerequisite: BIOL 413 or permission of instructor. LEC

BIOL 641 Laboratory in Paleobotany (1). U An examination of selected fossil plants throughout geological time and the techniques used to study them; laboratory will include identification and the use of plant fossils in biostratigraphy. (Same as GEOL 529.) Prerequisite: BIOL 413 or permission of instructor. Must be taken concurrently with BIOL 640. LAB

BIOL 644 Comparative Animal Physiology (3). N Lecture and discussion of the basic mechanism of organic maintenance and integration; a comparative treatment of the uniformities and diversity of animal function; emphasis on environmental adaptations and evolutionary relationships. Prerequisite: BIOL 408, five hours of organic chemistry, and one year of college physics, or consent of instructor. LEC

Students who intend to major in chemistry should begin planning their programs during the first year.

In addition to degree programs in general chemistry, the Department of Chemistry offers B.A. and B.S. degree options in biochemistry, environmental and biological chemistry, and chemical physics.

BIOL 646 Mammalian Physiology (4). N Lectures and demonstrations. An intermediate course in the functions, mechanisms and interactions of mammalian organ systems. Discussions span topics from molecular to whole animal functions. Required for pharmacy students and strongly recommended for students planning advanced work in any area of physiology. The student is assumed to have the knowledge and ability to utilize their math and science background. Prerequisite: Five hours of organic chemistry, a course of college physics. LEC

BIOL 647 Mammalian Physiology Laboratory (2). U Laboratory experiments in representative areas of mammalian physiology designed to complement BIOL 646. Not open to students with credit in BIOL 306. Prerequisite: BIOL 646 or BIOL 726 or concurrent enrollment LAB

BIOL 650 Advanced Neurobiology (3). N The course builds an in depth knowledge about basic mechanisms of synaptic communication among nerve cells and their targets, and the structure and function of nervous systems. Topics include nervous system development and synapse formation, structure and function of neurons, physiological and molecular basis of synaptic communication between neurons, mechanisms of synaptic plasticity involved in learning and memory, sensory systems (vision, auditory, vestibular, motor reflexes and pain), processing of neural information at cellular and system levels, synapse regeneration and diseases of the nervous system. Prerequisite: BIOL 435 (Introduction to Neurobiology), or consent of instructor. LEC

BIOL 652 Comparative Animal Behavior (3). N A comparative analysis of behavior as an adaptive mechanism; emphasis on ontogenetic and evolutionary aspects of behavior. Prerequisite: BIOL 152 or BIOL 153, and PSYC 104, or consent of instructor. LEC

BIOL 654 Comparative Animal Behavior, Laboratory (1). U Laboratory and field phase of BIOL 652. Students may elect sections according to their special interests. Prerequisite: Prior or concurrent enrollment in BIOL 652. LAB

BIOL 656 Ecosystem Ecology (3). N An introduction to the patterns and processes that affect terrestrial ecosystems. Emphasis is placed on understanding nutrient cycles (e.g., carbon nitrogen phosphorous), hydrologic cycles, and patterns of net primary productivity. The role of both natural and anthropogenic disturbances in structuring terrestrial ecosystems is examined in the context of global land-use patterns. Discussion of current research literature will be expected. (Same as EVRN 656.) Prerequisite: BIOL 414 and CHEM 184. LEC

BIOL 660 Limnology (3). N An introduction to the biological, chemical, and physics processes that characterize ponds, lakes, and reservoirs. Discussion of current research papers. Prerequisite: General ecology (BIOL 414 or equivalent) or permission of instructor. LEC

BIOL 661 Stream Ecology (3). N Population, community, and ecosystem ecology of flowing water habitats from ephemeral creeks to great rivers. The course emphasizes biological phenomena, but physical and chemical processes are discussed. Prerequisite: BIOL 414 or equivalent, or consent of instructor. Concurrent enrollment in Stream Ecology Laboratory. BIOL 668 is recommended. LEC

BIOL 662 Aquatic Ecology Laboratory (2). U A field and laboratory course introducing biological, physical, and chemical characteristics of lentic (ponds and lakes) and lotic (creeks and rivers) habitats. Students learn sampling and monitoring techniques and how to classify aquatic biota at higher taxonomic levels. Co- or prerequisite: CHEM 184 and either BIOL 660 or 661. LAB

BIOL 664 Vertebrate Biology (3). U A laboratory course emphasizing principles of systematics and identification and the behavioral ecology of local vertebrate animals. Prerequisite: BIOL 152, BIOL 153 or consent of instructor. LAB

BIOL 667 Chemical Communication in Sex, Feeding, and Fighting (3). N The course focuses on the role of chemical information molecules in the interrelationships among organisms, with particular attention to interactions (a) within and between animal species, (b) within and between plant species, (c) between animals and plants, (d) between predators and prey, and (e) between parasites and hosts. Prerequisite: BIOL 100 or BIOL 101 or BIOL 152 or BIOL 153 or consent of instructor. LEC

BIOL 668 Evolutionary Ecology (3). N Emphasis will be on the themes that interface ecology and evolutionary studies. Topics will include selection theory; reproductive, foraging, and sex allocation problems; coevolution; patterns or morphological and behavioral adaptations; competition, predation, and population regulation. Special attention will be given to the philosophy and practice of resolving unanswered questions in evolutionary ecology. Prerequisite: BIOL 412 or permission of instructor. LEC

BIOL 669 Biology of Freshwater Invertebrates (3). N A lecture, field, and laboratory course examining the classification, biological characteristics, and ecology of invertebrates in lotic and lentic habitats. Major groups of benthic and planktonic invertebrates will be studied, including aquatic insects, crustaceans, molluscs, and others. Prerequisite: BIOL 540, BIOL 660, BIOL 661, or BIOL 663, or permission of instructor. LEC

BIOL 670 Natural History Museum Techniques (2-5). N A maximum of fifteen hours credit. Construction of museum exhibits; preparation of plants, animals, and fossils for research, including accessioning, cataloging, and filing. Prerequisite: Permission of director of museum. FLD

BIOL 672 Gene Expression (3). N A study of the structure and expression of genes in prokaryotes and eukaryotes. Emphasis on the mechanisms of DNA, RNA, and protein biosynthesis. Prerequisite: A course in biochemistry or consent of instructor. LEC

BIOL 673 Cellular and Molecular Neurobiology (3). Mechanisms of neural function and development will be considered at the cellular and molecular levels. Synaptic mechanisms of learning and memory, modulation of transmitter release, and the molecular basis of neurodegenerative disorders will also be discussed. Prerequisite: BIOL 435, BIOL 646, or permission of instructor. LEC

BIOL 688 The Molecular Biology of Cancer (3). N The basic concepts of molecular biology are examined and used to probe the process by which a normal cell becomes a cancer cell. The course investigates DNA damage and repair, chemical carcinogenesis, gene cloning and manipulation, the control of gene expression in eukaryotes, tumor viruses, the roles of oncogenes and tumor suppressor genes in carcinogenesis, and cancer therapy. Prerequisite: BIOL 350 and BIOL 600, or consent of instructor. LEC

BIOL 690 Control Mechanisms in Development (3). N Molecular aspects of nucleic acid dynamics; differential gene function and its control; regulation of morphogenesis. Prerequisite: BIOL 350 and BIOL 416, or equivalent, or consent of instructor. LEC

BIOL 692 Developmental Genetics (3). N The genetic control of basic developmental processes such as cell differentiation, morphogenesis and pattern formation in developing organisms will be analyzed using model systems ranging from yeast to fruit fly *Drosophila* to higher plants. Prerequisite: A course in genetics and in cell developmental biology. LEC

BIOL 695 Animal Communication and Sensory Ecology (3). N Lectures and discussion sessions. A study of the propagation and perception of olfactory, acoustic, and visual signals produced by animals in the context of communication. Both physiological and evolutionary perspectives will be treated. Prerequisite: A course in behavior or consent of instructor. LEC

BIOL 699 Divisional Honors Research Colloquium (1). U Students pursuing Honors in Biology will meet weekly to discuss, both formally and informally, their honors research. Background information and experimental approaches of the research will be examined and critiqued. Prerequisite: Enrollment in Division of Biological Sciences Honors Program and consent of instructor. LEC

BIOL 700 Conservation Principles and Practices (3).

BIOL 701 Topics in: _____ (1-3).

BIOL 702 Laboratory Practice: Radiation Safety Procedures (0.75).

BIOL 703 Radioisotopes and Radiation Safety in Research (1.25).

BIOL 704 Research Animal Methods (3).

BIOL 706 Current Trends in Curation and Collection Management (2).

BIOL 708 External Morphology of Insects (4).

BIOL 709 Immature Insects (2).

BIOL 710 Insect Development (3).

BIOL 711 Insect Systematics (4).

BIOL 712 Population Biology (3).

BIOL 714 Community and Ecosystem Ecology (3).

BIOL 716 Insect Physiology and Internal Morphology (3).

BIOL 717 Insect Ecology and Behavior (3).

BIOL 718 Laboratory in Molecular Biology (3).

BIOL 719 Light and Electron Microscopy (3).

BIOL 720 Scientific Illustration (3).

BIOL 721 Microbial Genetics (3).

BIOL 742 Plant Population Biology (3).

BIOL 743 Population Genetics (3).

BIOL 745 Laboratory in Experimental Ecology (3).

BIOL 746 Principles of Systematics (4).

BIOL 747 Quantitative Genetics (3).

BIOL 749 Topics in Stable Isotopes in the Natural Sciences: _____ (2-3).

BIOL 750 Advanced Biochemistry (3).

BIOL 751 Plant Communities of North America (3).

BIOL 752 Cell Biology (3).

BIOL 753 Advanced Genetics (3).

BIOL 754 Brain Diseases and Neurological Disorders (3).

BIOL 756 Cell and Tissue Culture Laboratory (3).

BIOL 767 The Vegetation of the Earth (3).

BIOL 768 Plant Molecular Biology (3).

BIOL 770 Plant Biochemistry (3).

BIOL 772 Gene Expression (3).

BIOL 775 Chemistry of the Nervous System (3).

BIOL 776 Mammalian Neuroanatomy (3).

BIOL 777 Integrative and Developmental Neurobiology (3).

BIOL 780 Fisheries (2).

- BIOL 781 Fisheries, Laboratory (2).
 BIOL 782 Principles of Biogeography (3).
 BIOL 783 Herpetology (3).
 BIOL 784 Introduction to Museum Public Education (3).
 BIOL 785 Museum Management (3).
 BIOL 786 Fundamentals of Tropical Biology (1-8).
 BIOL 787 Introduction to Museum Exhibits (3).
 BIOL 788 The Nature of Museums (3).
 BIOL 789 Field Course in Entomology (1-6).
 BIOL 790 Paleontology of Lower Vertebrates (3).
 BIOL 791 Paleontology of Higher Vertebrates (3).
 BIOL 792 Ichthyology (4).
 BIOL 793 Ornithology (3).
 BIOL 794 Mammalogy (3).
 BIOL 795 Biology of Amphibians (3).
 BIOL 796 Biology of Reptiles (3).
 BIOL 797 Field Course in Vertebrate Paleontology (3-6).
 BIOL 798 Principles and Practices of Museum Collection Management (3).
 BIOL 799 Natural History Museum Apprenticeship (1-6).

Botany

A bachelor's degree with a major in botany is not offered, but the student may obtain a degree in biology with emphasis in botany. Any course in the plant sciences numbered 699 or below is appropriate for the undergraduate emphasis. See Biological Sciences.

For those planning to go on for advanced degrees, the following courses are recommended:

- BIOL 533 Biology of Fungi
 BIOL 555 General Plant Physiology
 BIOL 602 Plant Ecology
 BIOL 603 Systematic Botany

Caribbean Studies

See African and African-American Studies.

Cell Biology

Students may concentrate in cell biology by seeking a B.S. in biology. See Biological Sciences.

Chemistry

Chair: Joseph A. Heppert
 Malott Hall, 1251 Wescoe Hall Dr., Room 2010
 Lawrence, KS 66045-7582
 (785) 864-4673, www.chem.ku.edu

Degrees offered: B.A., B.S., M.S., Ph.D.

Chemistry course work educates students to become professional chemists or to do graduate work in chemistry. It also provides the basic chemistry background for students entering such fields as biochemistry, biological sciences, dentistry, engineering, environmental science, geology, medicine, pharmacy, physics, and secondary-level science education.

Courses in chemistry provide general knowledge and appreciation of chemistry and its impact on society.

Courses for Nonmajors

Students taking chemistry as preparatory study for another field should consult the courses listed for that field in this catalog. CHEM 124 and CHEM 125 are introductory courses for the nonscience major who wants to study the general principles, methods, role, and significance of chemistry in the modern world, for prenursing students, and for students who plan to take no additional

courses in chemistry. Premedical students and chemistry or other science majors should **not** take CHEM 124 or CHEM 125. CHEM 124 is lecture only. CHEM 125 includes a laboratory. Engineering students who need only one semester of chemistry should take CHEM 184. CHEM 184 is an introductory course designed for students who plan to take more than one year of college chemistry, including chemical engineering, premedical, prepharmacy, and pre dental students and students in biological sciences who must take organic chemistry. Students should continue with CHEM 188 in the same academic year that they take CHEM 184.

Advanced Placement

Students who have taken the Advanced Placement Examination in chemistry should have the results forwarded to the Office of Admissions and Scholarships. Students who receive a score of 5 need not take CHEM 184 and CHEM 188 and receive 10 hours of credit. With departmental permission, those who earn a score of 3 or 4 receive credit for CHEM 184. Credit for CHEM 188 also may be given to those who pass a special examination. Students who receive a score of at least 50 on the College Level Examination Program general chemistry examination receive 5 hours of credit in CHEM 125.

Majors

The B.S. prepares students for graduate school and professional careers. The B.A. is for the student who wants to understand the fundamental principles of chemistry and to study a number of other fields. Both are based on a high school background that includes at least one and one half years of algebra and one year of geometry. High school courses in chemistry and physics are desirable but are not required.

Many chemistry majors are preparing for medical schools or for graduate study in chemistry and related fields. For graduate school, the common body of knowledge in the B.A. program is the minimum prerequisite. For premedical students, much of the knowledge will be important in their careers. Even more important, however, is the training in logical thinking, drawing conclusions from experimental observations, and digesting and understanding scientific information.

Requirements for the B.A. Major. In addition to the common College requirements for the B.A., a minimum of 29 to 30 hours in chemistry (including 5 hours each of analytical, organic, and physical chemistry lecture and laboratory) and one year each of calculus and physics (prerequisites for physical chemistry) are required. These courses fulfill the requirements:

Chemistry Courses (29-30 hours)

CHEM 184 (or CHEM 185) and CHEM 188 (or CHEM 189) Foundations of Chemistry I and II	10
CHEM 622 Fundamentals of Organic Chemistry (3) or CHEM 624 (or CHEM 628) Organic Chemistry I (3)	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 516 Analytical Chemistry	3
CHEM 517 Analytical Chemistry Laboratory	2
CHEM 640 Biological Physical Chemistry (3) or CHEM 646 Introduction to Physical Chemistry (4)	3-4
CHEM 647 Physical Chemistry I Laboratory	2
CHEM 696 Junior/Senior Seminar	1
Additional chemistry course	3

Mathematics and Physics (14-18 hours)

MATH 115 or MATH 121 Calculus I	3-5
MATH 116 or MATH 122 Calculus II	3-5
PHSX 114 or PHSX 211 Physics I	4
PHSX 115 or PHSX 212 Physics II	4

Courses that fulfill the additional 3 hours for the major are CHEM 626 (or CHEM 630) Organic Chemistry II, CHEM 635 and CHEM

636 Instrumental Methods of Analysis and Laboratory, CHEM 648 Molecular Physical Chemistry, or CHEM 667 Systematic Inorganic Chemistry. Note that CHEM 648 has MATH 121, MATH 122, PHSX 211, and PHSX 212 as prerequisites. Students in premedical programs should be aware that a year of organic chemistry lecture and laboratory (CHEM 624 or CHEM 628, CHEM 625, CHEM 626 or CHEM 630, and CHEM 627) is required for admission to virtually all medical schools. Students who take only one semester of organic chemistry should substitute CHEM 622 (the one-semester organic chemistry lecture course) for CHEM 624, when possible.

Requirements for the B.A. Major: Environmental Chemistry Option. This option is available to students who plan to use their chemistry background in environmentally related areas. The additional courses required provide background in other environmental sciences as well as further exposure to important methods used in environmental laboratories.

In addition to all of the requirements for the regular B.A. major, the following courses are required:

¹ CHEM 626 (or CHEM 630) Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
CHEM 635 Instrumental Methods of Analysis	2
CHEM 636 Instrumental Methods of Analysis Laboratory	2
Plus two electives	6

(In consultation with a faculty major adviser, choose two courses from those listed in Group I or Group II in Requirements for the B.S. Degree in Chemistry: Environmental Chemistry Option.)

Requirements for the B.A. Major: Biological Chemistry Option. This option is available to students interested in the biological applications of chemistry. The curriculum is compatible with many pre-health professions programs and prepares the student for graduate study or career opportunities.

In addition to all of the requirements for the regular B.A. major, the following courses are required:

¹ CHEM 626 (or CHEM 630) Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
BIOL 600 Introductory Biochemistry, Lectures	4
Plus two electives	6

(In consultation with a faculty major adviser, choose two courses from those listed under Group I or Group II in Requirements for the B.S. Degree in Chemistry: Biological Chemistry Option.)

¹Select this course as the additional chemistry course.

Requirements for the B.S. Degree. The significant differences between the B.S. and B.A. lie in the distribution requirements and the required subjects. This outline lists all required courses and some suggested electives. The program satisfies College requirements as well as certification standards of the American Chemical Society.

Chemistry Courses (50 hours)

CHEM 184 (or CHEM 185) and CHEM 188 (or CHEM 189) Foundations of Chemistry I and II	10
CHEM 516 Analytical Chemistry	3
CHEM 517 Analytical Chemistry Laboratory	2
CHEM 624 (or CHEM 628) Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 (or CHEM 630) Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
CHEM 635 Instrumental Methods of Analysis	2
CHEM 636 Instrumental Methods of Analysis Laboratory	2
CHEM 646 Introduction to Physical Chemistry	4
CHEM 647 Physical Chemistry I Laboratory	2
CHEM 648 Molecular Physical Chemistry	3
CHEM 649 Physical Chemistry II Laboratory	2
CHEM 667 Systematic Inorganic Chemistry	3
CHEM 668 Advanced Inorganic Laboratory	2
CHEM 696 Junior/Senior Seminar	1
Plus one or more of the following courses: CHEM 698 (or CHEM 699) Undergraduate Research Problems or 700-level course	4

Mathematics, Physics, and Biochemistry (26-27 hours)

MATH 121 and MATH 122 Calculus I and II	10
MATH 223 Vector Calculus	3
MATH 290 Elementary Linear Algebra	2
PHSX 211 and PHSX 212 General Physics I and II	8
BIOL 600 Introductory Biochemistry, Lectures (4) or BIOL 636 Biochemistry I (3)	3-4

Other Requirements (27-29 hours)

²Additional language or skill (A course in French, German, Russian, Japanese, Chinese, Spanish, or EECS 138, CHEM 711 or PHSX 636, MATH 526, or MATH 320, or another language or skill course)

English (ENGL 101 and ENGL 102)	3-5
Western civilization	6
Humanities	6
Social sciences	6

Additional courses may be taken in free electives to complete the total of 124 hours for the degree. An overall average grade of C must be earned in all upper-level KU courses in chemistry.

Requirements for the B.S. Degree in Chemistry:

Environmental Chemistry Option. This option allows students to focus on environmental issues and to understand how chemistry may be applied to environmental problems. Students are prepared for graduate programs or employment. The curriculum substitutes four environmentally related courses for four courses in the standard B.S. program. The program satisfies College requirements as well as American Chemical Society standards.

Chemistry Courses (44 hours)

CHEM 184 (or CHEM 185) and CHEM 188 (or CHEM 189) Foundations of Chemistry I and II	10
CHEM 516 Analytical Chemistry	3
CHEM 517 Analytical Chemistry Laboratory	2
CHEM 624 (or CHEM 628) Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 (or CHEM 630) Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
CHEM 635 Instrumental Methods of Analysis	2
CHEM 636 Instrumental Methods of Analysis Laboratory	2
CHEM 646 Introduction to Physical Chemistry	4
CHEM 647 Physical Chemistry I Laboratory	2
CHEM 648 Molecular Physical Chemistry	3
CHEM 649 Physical Chemistry II Laboratory	2
CHEM 667 Systematic Inorganic Chemistry	3
CHEM 696 Junior/Senior Seminar	1

Mathematics and Physics (23 hours)

MATH 121 and MATH 122 Calculus I and II	10
MATH 223 Vector Calculus	3
MATH 290 Elementary Linear Algebra	2
PHSX 211 and PHSX 212 General Physics I and II	8

Group I (6-7 hours). Choose two courses:

BIOL 100 Principles of Biology (3) or BIOL 150 Principles of Molecular and Cellular Biology (4)	4
EVRN 148 Principles of Environmental Studies (3)	3
GEOG 304 Environmental Conservation (3)	3
GEOL 351 Environmental Geology (3)	3
BIOL 400 Fundamentals of Microbiology (3)	3
BIOL 414 Principles of Ecology (3)	3
BIOL 600 Introductory Biochemistry, Lectures (4)	4
ATMO 105 Introductory Meteorology (3)	3

Group II (6-7 hours). Choose two courses:

BIOL 660 Limnology (with or without BIOL 662 Aquatic Ecology Laboratory) (3-4)	4
CE 477 Introduction to Environmental Engineering and Science (3)	3
GEOL 552 Introduction to Hydrogeology (3)	3
ATMO 525 Air Pollution Meteorology (3)	3
EVRN 611 Water Quality, Land Use, and Watershed Ecosystems (3)	3
CHEM 698 Undergraduate Research Problems (3) (CHEM 698 is strongly recommended for all students selecting this option. To count toward the environmental option, the research must have a clear environmental focus and may not be taken until completion of CHEM 516 and CHEM 517 and consultation with a chemistry undergraduate major adviser.)	3

Note: All four courses chosen from Groups I and II may not be in the same department or division.

Other Requirements (26 hours)

²Additional language or skill (A course in French, German, Russian, Japanese, Chinese, Spanish, or EECS 138, CHEM 711 or PHSX 636, MATH 526, or MATH 320, or another language or skill course)

English (ENGL 101 and ENGL 102)	5
Western civilization	6
Humanities	3
Social sciences	6

Free electives may complete the total of 124 hours. An overall average grade of C must be earned in all upper-level chemistry courses.

²Native speakers must demonstrate ability to translate selected material into acceptable scientific English. Although foreign language is no longer required for the B.S. degree, both the chemistry department and the ACS strongly recommend study of a foreign language.

Higuchi

Biosciences

Centers include

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Biomedical

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(800) 222-1222,

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or visit

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poison.

Requirements for the B.S. Degree in Chemistry: Biochemistry Option

Chemistry Courses (50 hours)

CHEM 184 (or CHEM 185) and CHEM 188 (or CHEM 189) Foundations of Chemistry I and II	10
CHEM 516 Analytical Chemistry	3
CHEM 517 Analytical Chemistry Laboratory	2
CHEM 624 (or CHEM 628) Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 (or CHEM 630) Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
CHEM 635 Instrumental Methods of Analysis	2
CHEM 636 Instrumental Methods of Analysis Laboratory	2
CHEM 646 Introduction to Physical Chemistry	4
CHEM 647 Physical Chemistry I Laboratory	2
CHEM 648 Molecular Physical Chemistry	3
CHEM 649 Physical Chemistry II Laboratory	2
CHEM 667 Systematic Inorganic Chemistry	3
CHEM 668 Advanced Inorganic Laboratory	2
CHEM 696 Junior/Senior Seminar	1
Plus one or more of the following courses: CHEM 698 (or CHEM 699) Undergraduate Research Problems or 700-level course	4

Biology and Biochemistry Courses (13 hours)

BIOL 150 Principles of Molecular and Cellular Biology (or honors equivalent)	4
BIOL 636 Biochemistry I	3
BIOL 637 Introductory Biochemistry Laboratory	3
BIOL 638 Biochemistry II	3

Biology Option Group (3 hours). Choose one of the following:

BIOL 350 Principles of Genetics (3)	3
BIOL 400 Fundamentals of Microbiology (3)	3
BIOL 416 Cell Structure and Function (3)	3

Mathematics and Physics (23 hours)

MATH 121 and MATH 122 Calculus I and II	10
MATH 223 Vector Calculus	3
MATH 290 Elementary Linear Algebra	2
PHSX 211 and PHSX 212 General Physics I and II	8

Other Requirements (21 hours)

English (ENGL 101 and ENGL 102)	6
Western civilization	6
Humanities	3
Social sciences	6

Additional courses may be taken in free electives to complete the total of 124 hours for the degree. An overall average grade of C must be earned in all upper-level KU courses in chemistry.

Requirements for the B.S. Degree in Chemistry:

Chemical Physics Option. This option allows students to focus on the theoretical basis of chemistry. Students are prepared for graduate programs or employment. The curriculum substitutes four physics or mathematics courses for four courses in the standard program.

Chemistry Courses (46 hours)

CHEM 184 (or CHEM 185) and CHEM 188 (or CHEM 189) Foundations of Chemistry I and II	10
CHEM 516 Analytical Chemistry	3
CHEM 517 Analytical Chemistry Laboratory	2
CHEM 624 (or CHEM 628) Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 (or CHEM 630) Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
CHEM 635 Instrumental Methods of Analysis	2
CHEM 636 Instrumental Methods of Analysis Laboratory	2
CHEM 646 Introduction to Physical Chemistry	4
CHEM 647 Physical Chemistry I Laboratory	2
CHEM 648 Molecular Physical Chemistry	3
CHEM 649 Physical Chemistry II Laboratory	2
CHEM 667 Systematic Inorganic Chemistry	3
CHEM 668 Advanced Inorganic Laboratory	2
CHEM 696 Junior/Senior Seminar	1

Mathematics, Physics, and Biology (29-30 hours)

MATH 121 and MATH 122 Calculus I and II (or honors equivalents)	10
MATH 223 Vector Calculus	3
MATH 290 Elementary Linear Algebra	2
MATH 320 Elementary Differential Equations (or honors equivalent)	3
PHSX 211 and PHSX 212 General Physics I and II (or honors equivalents)	8
BIOL 600 Introductory Biochemistry, Lectures (4) or BIOL 636 Biochemistry I (3)	3-4

Chemical Physics Option Group I (6-7 hours). Choose two:

PHSX 313 General Physics III and PHSX 316 Intermediate Physics Laboratory I (4)	4
PHSX 518 Mathematical Physics (3)	3
PHSX 615 Numerical and Computational Methods in Physics (3)	3
PHSX 521 Mechanics I (3)	3
PHSX 623 Physics of Fluids (3)	3
PHSX 655 Optics (3)	3
PHSX 681 Concepts in Solids (3)	3

Chemical Physics Option Group II (6 hours). Choose two:

PHSX 531 Electricity and Magnetism (3)	3
PHSX 621 Mechanics II (3)	3
MATH 646 Complex Variable and Applications (3)	3
MATH 647 Applied Partial Differential Equations (3)	3
CHEM 698 (or CHEM 699) Undergraduate Research (3) (To count toward the Chemical Physics option, the research must have a clear chemical physics focus.)	3
CHEM 750 Quantum Chemistry and Spectroscopy (3)	3
CHEM 752 Statistical Thermodynamics (3)	3

Other Requirements (21 hours)

English (ENGL 101 and ENGL 102)	6
Western civilization	6
Humanities	3
Social sciences	6

Requirements for the Minor. The minor allows students outside the department to obtain a strong, distributed background in the discipline. It is particularly useful for students anticipating careers in medicine, allied health, biological sciences, environmental sciences, chemical engineering, business, law, secondary education, or any career in which a basic understanding of the molecular sciences is helpful. A total of 23 to 25 credit hours is required, including 12 hours of upper-division work and at least two upper-division laboratories. Students should see a chemistry department adviser early in the junior year.

Required Courses (15 hours)

CHEM 184 (or CHEM 185) Foundations of Chemistry I	5
CHEM 188 (or CHEM 189) Foundations of Chemistry II	5
CHEM 622 Fundamentals of Organic Chemistry (3) or CHEM 624 Organic Chemistry I (3) or CHEM 628 Organic Chemistry I (3)	3
CHEM 625 Organic Chemistry I Laboratory	2

Elective Group I (5-6 hours). Choose one of the following:

CHEM 640 (or CHEM 646) Biological Physical Chemistry and CHEM 647 Physical Chemistry I Laboratory (5-6) (fall only)	5-6
CHEM 516 and CHEM 517 Analytical Chemistry and Laboratory (5) (fall only)	5

Elective Group II (3-4 hours). Choose one of the following:

CHEM 640 (or CHEM 646) Biological Physical Chemistry (3-4) (fall only)	3-4
CHEM 516 Analytical Chemistry (3) (fall only)	3
CHEM 667 Systematic Inorganic Chemistry (3) (spring only)	3
CHEM 690 Environmental Chemistry (3) (offered at irregular intervals)	3

Honors. Students may apply for admission to the departmental honors program after completion of an analytical, organic, and physical chemistry course but no sooner than the beginning of the junior year. Highly motivated and superior B.A. and B.S. students are admitted to the honors program. Honors in chemistry are awarded to students who have been admitted to the program and who have completed the following requirements with superior performance.

1. CHEM 184 or CHEM 185, CHEM 188 or CHEM 189, CHEM 516, CHEM 517, CHEM 624 or CHEM 628, CHEM 625, CHEM 626 or CHEM 630, CHEM 627, CHEM 646, CHEM 648, CHEM 647, and at least 3 hours of courses in chemistry at the 700 level or CHEM 667.
2. At least two semesters of CHEM 699 (4-8 hours total) resulting in a written thesis.
3. Evaluation and approval of the thesis by a faculty advisory committee.
4. Oral presentation of the thesis results at a special departmental seminar or other approved forum.

For an application form and further information, consult the department office.

● Chemistry Courses

CHEM 124 College Chemistry (3). NP N This course is a non-laboratory version of CHEM 125 and is a general treatment of basic concepts of general and organic chemistry as well as the role and significance of chemistry in the modern world. It is designed to fulfill the science requirement for non-science students, and should not be taken by students whose major requires a laboratory course in chemistry or more than one semester of chemistry. Meets with CHEM 125 for three lecture periods per week, with optional discussion sessions. LEC

CHEM 125 College Chemistry (5). NP N A general treatment of the basic concepts of general and organic chemistry as well as the role and significance of chemistry in the modern world. The course is designed to fulfill the science requirement for non-science majors, and should not be taken by students who require more than one semester of chemistry. Three class periods, one three-hour laboratory, and optional discussion sessions. LEC

CHEM 184 Foundations of Chemistry I (5). NP N This course seeks to develop a working knowledge of the conceptual foundation and the quantitative chemical relationships on which subsequent chemistry courses are built. Atomic structure, chemical bonding, properties of gases, liquids, and solids, acid-base chemistry, and chemical equilibria are emphasized. The class meets each week for three one-hour lectures, a one-hour tutorial period, and a three-hour laboratory. Students with credit in CHEM 125 will have two hours added on to their total number of hours required for graduation. Prerequisite: Must be eligible for MATH 115. LEC

CHEM 185 Foundations of Chemistry I Honors (5). NP N A course designed for qualified and motivated students with a strong interest in chemistry to provide a more thorough treatment of the concepts and topics of general chemistry. It is anticipated that students in CHEM 185 have had chemistry at the high-school level and plan to take more than one year of chemistry at the college level. Class meets each week for three one-hour lectures, a one-hour tutorial period, and a three-hour lab. Students with credit in CHEM 125 will have two hours added on to their total number of hours required for graduation. Prerequisite: Eligibility for CHEM 184, a satisfactory score on a qualifying examination administered by the Department of Chemistry, and at least one of the following: (a) acceptance into the KU Honors Program, (b) an AP score in chemistry of 3 or higher, (c) a mathematics ACT score of 28 or higher. LEC

CHEM 188 Foundations of Chemistry II (5). N This course is a continuation of CHEM 184 and provides an introduction to inorganic chemistry and qualitative and quantitative analysis. Electrochemistry, thermodynamics, chemical kinetics, and coordination chemistry are stressed. The class meets each week for three one-hour lectures, an optional tutorial period, and a five-hour laboratory. Prerequisite: CHEM 184. LEC

CHEM 189 Foundations of Chemistry II, Honors (5). N A course designed for qualified and motivated students with strong interest in chemistry to provide a more thorough treatment of the concepts and topics of advanced general chemistry. It is anticipated that the students in CHEM 189 have completed CHEM 185 or excelled in CHEM 184. Prerequisite: Membership in the University Honors Program, CHEM 184, CHEM 185, or consent of the department. LEC

CHEM 309 History of Chemistry (3). H Birth of modern chemical science from roots in Greek natural philosophy, alchemy, Renaissance medicine and technology. The Chemical Revolution of Lavoisier and Dalton. Maturity of chemistry in the 19th and 20th centuries, along with an examination of growth of chemical institutions and the rise of chemical industry. Emphasis on developments from the 18th century to the present. (Same as HIST 309.) LEC

CHEM 450 Directed Readings/Laboratory in Chemistry (1-3). N Individual and supervised study or laboratory work on special topics or problems in chemistry. Prerequisite: Ten hours of chemistry and a minimum overall grade-point average of 2.0 or consent of department. IND

CHEM 516 Analytical Chemistry (3). N Principles of analytical chemistry with emphasis on the fundamental reactions used for chemical analysis. Topics include chemical equilibria in acid/base, complexation, separations, and redox systems, data analysis, and potentiometry. Three class periods per week. Prerequisite: CHEM 188, CHEM 622 or CHEM 624, CHEM 625, and concurrent enrollment in CHEM 517. LEC

CHEM 517 Analytical Chemistry Laboratory (2). N Experiments illustrate fundamental principles of chemical analysis methods. The course serves as an introduction to advanced instrumental methods of analysis. One five-hour laboratory and one fifty minute lecture each week. Prerequisite: CHEM 188, CHEM 622 or CHEM 624, CHEM 625, and concurrent enrollment in CHEM 516. LAB

CHEM 622 Fundamentals of Organic Chemistry (3). N A study of the structures and reactions of important classes of organic compounds. Along with the organic laboratory, CHEM 625, this course will fulfill the needs of students requiring a single semester of organic chemistry. Students requiring more than one semester of organic chemistry should enroll in CHEM 624. Prerequisite: CHEM 188. LEC

CHEM 624 Organic Chemistry I (3). N Three class periods each week. A study of the structure and reactivity of selected classes of or-

ganic compounds. CHEM 624 is the first course of a two-semester sequence. Students who require only one semester of organic chemistry should enroll in CHEM 622. Students with credit in CHEM 622 will have two hours added on to their total number of hours required for graduation. Prerequisite: CHEM 188. LEC

CHEM 625 Organic Chemistry I Laboratory (2). U One five-hour laboratory and one one-hour lecture each week. Emphasis on basic techniques for the preparation, separation, and purification of organic compounds. Required for a major in chemistry and by those departments and programs specifying a complete undergraduate organic chemistry course. Prerequisite: CHEM 622 or CHEM 624, or concurrently. LAB

CHEM 626 Organic Chemistry II (3). N Three class periods each week. A continuation of CHEM 624, intended for students who want further training in organic chemistry. Prerequisite: CHEM 624. LEC

CHEM 627 Organic Chemistry II Laboratory (2). U One five-hour laboratory period and one one-hour lecture each week. More advanced organic laboratory techniques with emphasis on modern spectroscopic methods for determining the structure and purity of organic compounds. Required by all programs which specify a full year of organic chemistry. Prerequisite: CHEM 625 and CHEM 626 or CHEM 626 concurrently. LAB

CHEM 628 Organic Chemistry I, Honors (3). N Three class periods and one tutorial period each week. This is the first half of a two-semester sequence in organic chemistry for students with strong records in previous chemistry courses and who are planning or considering a major in a chemistry-related field. The content is similar to that of CHEM 624 but with coverage in greater depth and more emphasis on developing problem-solving skills. Students requiring only one semester of organic chemistry should not enroll in this course but take CHEM 622. Students with credit in CHEM 622 who take and complete CHEM 628 will have two hours added to their total number of credit hours required for graduation. Prerequisite: CHEM 188 or CHEM 189 and membership in the University Honors Program or consent of instructor. LEC

CHEM 630 Organic Chemistry II, Honors (3). N Three class periods and one tutorial period each week. This is the second course in a two-semester sequence in organic chemistry for students with strong records in previous chemistry courses and who are planning or considering a major in chemistry or in a chemistry-related field. The content is similar to that of CHEM 626 but with coverage in greater depth and more emphasis on developing problem-solving skills. Prerequisite: CHEM 624 or CHEM 628 and membership in the University Honors Program, or consent of instructor. LEC

CHEM 635 Instrumental Methods of Analysis (2). U Theory and application of instrumental methods to modern analytical problems. Topics covered include atomic and molecular spectroscopy, electrochemistry, mass spectrometry, and separations. Two class periods per week. Students must be enrolled concurrently in CHEM 636. Prerequisite: CHEM 516 and CHEM 517. CHEM 640 or CHEM 646 strongly recommended. Corequisite: CHEM 636. LEC

CHEM 636 Instrumental Methods of Analysis Laboratory (2). U Theory and application of instrumental methods to modern analysis problems. Experiments covered include atomic and molecular spectroscopy, electrochemistry, and separation methods. One five-hour laboratory each week. Students must be enrolled concurrently in CHEM 635. Prerequisite: CHEM 516 and CHEM 517. A course in physical chemistry is strongly recommended. Corequisite: CHEM 635. LAB

CHEM 640 Biological Physical Chemistry (3). N A one semester course, designed particularly for biology, biochemistry, and premedical students, which surveys the fundamentals of physical chemistry. The basic principles of thermodynamics, chemical kinetics, quantum chemistry, and spectroscopy will be introduced, and their application to aqueous solutions and biochemical systems will be emphasized. Prerequisite: One semester of organic chemistry, two semesters of calculus, and two semesters of physics. LEC

CHEM 646 Introduction to Physical Chemistry (4). N An introduction to the basic principles of quantum mechanics, atomic and molecular structure, spectroscopy, thermodynamics, change of state, chemical equilibria, statistical thermodynamics, and chemical kinetics. Prerequisite: CHEM 188, PHSX 211 and PHSX 212, and MATH 121 and MATH 122. LEC

CHEM 647 Physical Chemistry I Laboratory (2). U One four-hour laboratory and one one-hour lecture per week. Experiments in physical chemistry, with emphasis on thermodynamics and kinetics. Prerequisite: CHEM 646 or CHEM 640 or concurrent enrollment in CHEM 646 or CHEM 640. LAB

CHEM 648 Molecular Physical Chemistry (3). N A course building on the principles introduced in CHEM 646, emphasizing the quantum chemistry, spectroscopy, group theory, and the thermodynamics of molecular systems, as well as their application to the structure and properties of gases, liquids, solids, materials, and other areas of modern physical chemistry. Prerequisite: CHEM 646 and MATH 123 or consent of instructor. LEC

CHEM 649 Physical Chemistry II Laboratory (2). U One four-hour laboratory and one one-hour lecture per week. Experiments in physical chemistry, with emphasis on spectroscopy. Prerequisite: CHEM 648 or concurrent enrollment in CHEM 648. LAB

The Department of Classics office has information on scholarships and awards for classics students.

Classics courses that require no knowledge of Greek or Latin include Greek and Roman Mythology; Archaeological Discovery; Women in Ancient Art and Society; and Modern Themes, Ancient Models.

CHEM 667 Systematic Inorganic Chemistry (3). N A systematic study of the elements and their compounds, emphasizing the relationship between properties of substances and their atomic and molecular structures and the positions of the elements in the periodic systems. Prerequisite: CHEM 640 or CHEM 646 or CHEM 648, or CHEM 648 concurrently. LEC

CHEM 668 Advanced Inorganic Laboratory (2). U Experiments concerning the synthesis and characterization of inorganic compounds. Prerequisite: CHEM 667 or concurrent enrollment in CHEM 667. LAB

CHEM 680 Topics in Chemistry: _____ (1-5). N Courses on special topics in chemistry, given as the need arises. Course may be repeated for different topics. Prerequisite: 20 hours of Chemistry. Each section may have additional prerequisites to be determined by the instructor. LEC

CHEM 690 Environmental Chemistry (3). N The chemical nature of the biosphere; this course explores the fundamental chemistry underlying selected problems in air and water pollution. This class will meet for three 50 minute lectures each week. Prerequisite: CHEM 184, CHEM 188, and CHEM 622 and CHEM 624 or their equivalents. LEC

CHEM 696 Junior/Senior Seminar (1). U Special topics and presentations by students and faculty in areas of current interest such as recent developments in chemistry, societal issues facing chemists, career and professional perspectives, and reports of ongoing research. Meets once a week for one to one and one-half hours. May be repeated to accumulate a maximum of two credit hours. Prerequisite: Junior or senior standing, a declared major in chemistry and at least eighteen semester hours of chemistry. LEC

CHEM 698 Undergraduate Research Problems (1-6). N May be repeated to accumulate a maximum of 10 credit hours. An undergraduate research course, in any of the fields of chemistry, consisting of either experimental work or the preparation of an extensive paper based on library investigation of a selected topic. A final report must be submitted to the department at the end of the semester. Open by permission of the department to those with at least 20 hours of chemistry. IND

CHEM 699 Undergraduate Honors Research (2-6). N To be taken two semesters for a total of no more than 8 hours. An undergraduate research course, in any of the fields of chemistry. At the completion of the research, a written thesis, and an oral presentation will be required. Prerequisite: Admission to Chemistry Honors Program. IND

CHEM 711 Applied Electronics for Scientists (4).

CHEM 716 Practicum in Facilitating Learning in the Chemistry Laboratory (1).

CHEM 718 Mathematical Methods in Physical Sciences (3).

CHEM 720 Bibliography of Chemistry (1).

CHEM 731 Fundamentals and Methods of Analytical Chemistry (3).

CHEM 737 Coordination and Organometallic Chemistry (3).

CHEM 740 Principles of Organic Reactions (3).

CHEM 742 Physical Organic Chemistry I (3).

CHEM 750 Quantum Chemistry and Spectroscopy (3).

CHEM 752 Statistical Thermodynamics (3).

CHEM 754 Chemical Kinetics and Dynamics (3).

CHEM 763 Organic Synthesis I (3).

CHEM 766 Spectroscopic Identification of Organic Compounds (3).

CHEM 767 Advanced Laboratory Techniques for the Preparation and Purification of Compounds (3).

CHEM 775 Chemistry of the Nervous System (3).

Chinese

See East Asian Languages and Cultures.

Cherokee

See Liberal Arts and Sciences courses.

Classics

Chair: Pamela Gordon

Wescoe Hall, 1445 Jayhawk Blvd., Room 2104

Lawrence, KS 66045-7590

(785) 864-3153, www.ku.edu/~classics

Degrees offered: B.A., B.G.S., M.A.

Classics is the integrated study of Greek and Roman civilization through its languages, its literature, and its artistic and archaeological remains.

Courses for Nonmajors

The CLAS language requirement may be fulfilled by taking either Latin or Greek. To meet the language requirement in Latin, a student should complete LAT 104, LAT 108, and LAT 112 followed by LAT 200 (or their equivalents). To meet the language requirement in Greek, a student should complete GRK 104, GRK 108 (or their equivalents), GRK 301 or GRK 302 or GRK 303, and GRK 310 or GRK 312. No knowledge of Latin or Greek is needed for courses labeled CLSX.

The department also offers several principal courses, including CLSX 148 Greek and Roman Mythology.

Placement in Latin

Students who wish to enroll in Latin after studying Latin in high school or elsewhere should seek advice from the classics faculty about appropriate placement in Latin courses at KU. Whenever possible, please make an advising appointment in advance by calling the classics department at (785) 864-3153.

Retroactive Credit in Latin. In cooperation with the University Registrar, the Department of Classics awards retroactive university credit for work in Latin at the high school level. To qualify for retroactive credit, the student's initial university-level enrollment in Latin must be in a KU course. The student qualifies for retroactive credit only after completing the KU Latin course with a grade of C or higher.

After completing such a course with a qualifying grade, the student must bring his or her ARTS form and high school transcript to the Department of Classics office for verification. The department then notifies the Office of the University Registrar of the number of credit hours to be awarded. The student's transcript shows the number of hours awarded but no letter grade. The hours count toward graduation. Guidelines are as follows:

Two Years of High School Latin: A student must enroll initially at KU in LAT 112 or LAT 113 and receive a grade of C or higher. Three hours of retroactive credit will be awarded.

Three Years of High School Latin: A student who initially enrolls in LAT 200 or LAT 201 and receives a grade of C or higher will receive 6 hours of retroactive credit. A student who enrolls in LAT 112 or LAT 113 and receives a grade of C or higher will receive 3 hours of retroactive credit.

Four Years of High School Latin: A student who initially enrolls in a Latin course higher than LAT 200 or LAT 201 (e.g., any 300-level Latin course) and receives a grade of C or higher will receive 9 hours of retroactive credit. A student who enrolls in LAT 200 or LAT 201 and receives a grade of C or higher will receive 6 hours of retroactive credit.

Note: If a student initially enrolls in a course *below* the specified level (e.g., a student with four years of high school Latin enrolls in LAT 112 or LAT 113), he or she receives no retroactive credit. If a student initially enrolls in a course *above* the specified level (e.g., a student with two years of high school Latin enrolls in LAT 200 or LAT 201 or a student with three years of high-school Latin enrolls in a Latin course higher than LAT 200 or LAT 201) and receives a grade of C or higher, he or she is eligible for the full retroactive credit allowed for that course.

Majors

The Department of Classics offers two majors. Both offer students of diverse career goals a broad humane education and afford a solid foundation for those who wish to pursue graduate work in classics.

The Classical Antiquity degree prepares students, depending on the chosen emphasis, to do graduate work in classical archaeology, ancient history, or classical civilization. The Classical Languages degree prepares students for graduate study in classics.

The requirements listed for both classics majors are minimal. Classics is a vast interdisciplinary field. We encourage all classics majors to take as many courses

The Wilcox Classical Museum in Lippincott Hall houses original red-figure vases, Greek and Roman coins, inscriptions, and full-sized plaster casts of the Apollo Belvedere, the Parthenon frieze, and other antiquities.

A Directory of Undergraduate Majors and Subfields appears on pages 3-4.

as possible in the department and allied areas such as ancient philosophy. Classical Languages majors in particular should take as many Greek and Latin courses as they can. All classics majors should consider taking a study abroad course in Greece or Italy and going beyond the requirements in ancient art and archaeology. For detailed, current information, consult the Majors booklets available from the department.

First- and Second-year Preparation. Students intending to major in any aspect of classical studies should begin basic language work in either LAT 104/LAT 105 and LAT 108/LAT 109 or GRK 104/GRK 105 and GRK 108/GRK 109.

Requirements for the B.A. or B.G.S. Major:

Classical Antiquity. Students with a general interest in Greek and Roman culture and society may pursue a degree in Classical Antiquity. The three essential features of the program are language proficiency, the core curriculum, and 12 to 15 hours in electives.

Language Proficiency. Proficiency in Greek or Latin is normally satisfied by taking 16 hours of the language chosen: 10 introductory hours in one year, 6 intermediate hours in the second. The number of hours required may be reduced if a student has high school or transfer hours.

Core Curriculum. All students must take the following:

CLSX 148/CLSX 149 Greek and Roman Mythology/Honors (3) or
CLSX 151/CLSX 152 Archaeological Discovery/Honors (3) 3
CLSX 230/CLSX 330 Greek Literature and Civilization/Honors 3
CLSX 240/CLSX 340 Roman Literature and Civilization/Honors 3
Either CLSX 526 Greek Archaeology and Art (3) and
CLSX 527 Roman Archaeology and Art (3) or
CLSX 528 Archaeology and Art of Greece and Rome (3) 3-6
CLSX 492 Independent Study for Classical Antiquity Majors (3) or
CLSX 496 Honors Essay in Classical Antiquity (3) 3

Elective Hours. The remaining 12 hours (15 for students choosing CLSX 528) may include classics courses not taken to meet core curriculum requirements, Latin courses numbered 112 and above, Greek courses numbered 300 and above, PHIL 288 and PHIL 608, and courses in ancient history, excluding HIST 107 and any course in which the content is primarily 5th century C.E. and later.

Students who plan to pursue careers in archaeology may select a double major combining a Classical Antiquity major with a major in the history of art or in anthropology. A brochure is available.

Requirements for the B.A. or B.G.S. Major:

Classical Languages. The Classical Languages degree trains you to read the great authors of classical antiquity (e.g., Homer, Plato, Vergil) in the original Greek and Latin and prepares you for graduate study in classics and for teaching in some private schools. You also might combine your classical language interest with a degree in the School of Education. A degree in education with a Latin major allows you to teach Latin in public high schools.

Required Courses. The Classical Languages major requires 27 credit hours (nine courses) beyond the basic two-semester sequences of introductory Latin or Greek. Students take at least 15 hours in language courses starting with LAT 112/LAT 113 or GRK 301, 3 hours in ancient art and archaeology, 3 hours in ancient history, and 6 hours in electives (HWC 390, PHIL 288, etc.). A minimum of 10 hours in a second ancient language (or equivalent) is also required. LAT 100 and LAT 101 meet this requirement for those concentrating in Greek. Students with particular career plans may obtain written permission from the chair to substitute electives for the second language.

The Classical Languages major also must take an ancient history course and an ancient art and culture course in the area of the language of concentration. HIST 105, HIST 106, HIST 501, HIST 502, HIST 506, HIST 507, CLSX 230, CLSX 330, CLSX 240, or CLSX 340 may satisfy the history requirement. CLSX 526 or CLSX 527 may satisfy the art and culture requirement. Students with an equal concentration of Latin and Greek may take CLSX 528 to satisfy the art and culture requirement.

In consultation with the department, the Classical Languages major must choose 6 hours of electives from the following: All classics courses not included above; HIST 402, HIST 501, HIST 502, HIST 503, HIST 506, HIST 507, HIST 508, if not included above; PHIL 288, PHIL 508; HWC 304, HWC 390. A brochure is available in the Department of Classics.

Requirements for the Minor. The minor requires 18 credit hours (12 hours at the junior/senior level) in courses in the classics department (and other approved courses). The following tracks are available:

Greek

18 hours in ancient Greek and related courses. At least 6 of those hours must be in ancient Greek at the 300 level or above. In addition to courses in Greek, students may include CLSX 526 or CLSX 528, any other CLSX courses at the 300 level or above (not including CLSX 340 or CLSX 501), and PHIL 608.

Latin

18 hours in Latin and/or related courses. At least 6 of those hours must be in Latin at the 300 level or above. In addition to Latin courses, students may include CLSX 527 or CLSX 528, any other CLSX courses at the 300 level or above (not including CLSX 330, CLSX 384, or CLSX 388), and PHIL 608.

Classical Languages

18 hours in Latin and/or Greek. At least 12 of those hours must be in ancient Greek at the 300 level or above or in Latin at the 300 level or above.

Classical Antiquity

18 hours including
CLSX 230 or CLSX 330
CLSX 240 or CLSX 340
CLSX 526 and CLSX 527 or CLSX 528
The remaining 6 hours (9 hours for students choosing CLSX 528) may be courses in classics, Latin, Greek, PHIL 288, PHIL 608, and courses in ancient history, excluding HIST 107 and courses in which the content is primarily 5th century C.E. and later.

Honors. A candidate for honors must meet all the general requirements for graduation with honors established by the College. The independent research requirement is met by successful completion of Honors Essay, CLSX 496, GRK 496, or LAT 496. This is normally in the spring semester of the senior year.

This enrollment substitutes for one of the optional major courses, whether central or peripheral.

Scholarships and Awards

The department offers several scholarships and awards, such as the Mildred Lord Greef award for best paper or essay, the Albert O. Greef award for literary translation, the Tenney Frank scholarships for undergraduate study, and the Tenney Frank awards for foreign study of the classics. The department awards the Harley S. Nelson scholarship to students during the junior year solely on the basis of merit. For information, contact the department.

● Classics Courses

CLSX 148 Greek and Roman Mythology (3). HL H/W A systematic examination of the traditional cycles of Greek myth and their survival and metamorphosis in Latin literature. Some attention is given to the problems of comparative mythology and the related areas of archaeology and history. Slides and other illustrated materials. No knowledge of Latin or Greek is required. LEC

CLSX 149 Greek and Roman Mythology Honors (3). HL H/W The study of Greek and Roman mythology through extensive readings in primary classical texts and secondary authors. Prerequisite: Admission to the Honors Program or consent of instructor. LEC

CLSX 151 Archaeological Discovery (3). HT H/W A survey of archaeological discovery in the Old World designed to show how our knowledge of the early history of Western civilization has changed in the past 200 years as a result of archaeological fieldwork and interpretation and how new approaches to modern technology are revolutionizing contemporary exploration and analysis. Emphasis will be on significant discoveries (Troy, Tut's tomb), noted archaeologists (Schliemann, Flinders, Petrie) and unresolved problems (the "lost Atlantis," the language of the Etruscans). LEC

CLSX 152 Archaeological Discovery Honors (3). HT H/W An honors section of CLSX 151 for students with superior academic records. Prerequisite: Admission to the Honors Program or consent of instructor. LEC

CLSX 230 Greek Literature and Civilization (3). HL H An introduction to ancient Greek literature and civilization. Studied against the historical and cultural background of their times will be writers of poetry and prose such as Homer, Sappho, the tragedians, Aristophanes, Plato, and topics arising from the texts such as religion, ath-

letics, oral performance, sexuality, and the development of literary genres. No knowledge of Greek required and no prerequisite. LEC

CLSX 232 Word Power: Greek and Latin Elements in English (3). H/W A study of English words drawn from Greek and Latin for all those interested in the sources of the English vocabulary. Enough Greek and Latin for essential purposes is also studied. No knowledge of Greek or Latin is required. A student may not receive credit for both CLSX 232 and CLSX 332. LEC

CLSX 240 Roman Literature and Civilization (3). HL H An introduction to ancient Roman literature and civilization. Studied against the historical and cultural background of their times will be authors such as Plautus, Vergil, Livy, Petronius, and topics arising from the texts such as religion, oratory, slavery, political propaganda, the Roman games, and the development of Roman literature. No knowledge of Latin required and no prerequisite. LEC

CLSX 315 Women in Ancient Art and Society (3). H A survey of the role of women in the civilizations of the Mediterranean, with emphasis on the Greek, Etruscan, and Roman, as documented in the literary and visual record. Included will be a consideration of such topics as matriarchy and important figures such as Sappho, Cleopatra, and Agrippina. No knowledge of Greek or Latin is required. LEC

CLSX 330 Greek Literature and Civilization, Honors (3). HL H Honors version of CLSX 230. An introduction to ancient Greek literature and civilization through extensive readings in primary Greek texts. No knowledge of Greek required. Prerequisite: Membership in the University Honors Program or consent of instructor. LEC

CLSX 332 Scientific Word Power: Greek and Latin Elements in the Vocabulary of Science (3). H A study of the terminology of science with reference to its debt to the Greek and Latin languages. While all the natural sciences will be treated, there will be some emphasis on the biological sciences. No knowledge of Greek or Latin is required. A student may not receive credit for both CLSX 232 and CLSX 332. LEC

CLSX 340 Roman Literature and Civilization, Honors (3). HL H Honors version of CLSX 240. An introduction to ancient Roman literature and civilization through extensive readings in primary Roman texts. No knowledge of Latin required. Prerequisite: Membership in the University Honors Program or consent of instructor. LEC

CLSX 350 Modern Themes, Ancient Models: ____ (3). H The study of the evolution of a cultural or literary tradition from the Graeco-Roman world into modern times. The theme of the course will normally vary from semester to semester; topics such as these may be examined: the analysis of a literary genre (e.g. drama, satire, lyric), the transformation of the ancient mythical heritage, the reception of ancient astronomy. Students should consult the timetable for the theme of the course in a given semester. With departmental permission, may be repeated for credit as topic varies. (Same as HWC 380.) LEC

CLSX 374 Gender and Sexuality, Ancient and Modern (3). H Classical Greek and Roman attitudes to gender and sexuality compared and contrasted with modern notions and behaviors. Attention is paid to literature (dramatic, philosophical, medical, and legal texts) and archaeological evidence (vase painting, sculpture, and domestic architecture). The course may include the following topics: age divisions and rites of passage from childhood to maturity; marriage; conception, birth, and infanticide; the family; love; homoeroticism; property and economics; and sexuality and the law, politics, and religion. No knowledge of Greek or Latin is required: (Same as HWC 374.) LEC

CLSX 375 Studies in: ____ (1-3). H/W Selected readings in Greek and Roman antiquity and the classical tradition for students who desire special work on a flexible basis. No knowledge of Greek or Latin is required. May be repeated for credit, the maximum being twelve hours. Prerequisite: Consent of instructor. LEC

CLSX 384 The Rise of Greek Tragedy (3). H Plays by Aeschylus, Sophocles, and Euripides will be read in translation. The criticism of the plays, and the role they play in Athenian (and Greek) culture of the 5th century. This course includes the Oresteia, Oedipus Tyrannus, Antigone, and Medea. No knowledge of Greek is required. LEC

CLSX 388 Poetry and Politics in Fifth-century Athens (3). H The later plays of Euripides and Sophocles, selected plays by the comic dramatist Aristophanes, and passages from the historian Thucydides. Criticism of the plays, and discussion of themes common to literature and history in this period. The dissolution of a high culture. CLSX 384 is NOT a prerequisite. No knowledge of Greek required. LEC

CLSX 490 Comprehensive Examination of Classical Antiquity (1). U An examination covering the six areas of course work and reading for the Classical Antiquity major, to be taken by the student pursuing the major in the last semester of the senior year. Prerequisite: A declared major in Classical Antiquity and status as a graduating senior. IND

CLSX 492 Independent Study for Classical Antiquity Majors (3). U Under the supervision of an adviser in Classics, the student will do extensive reading in the area of Classics generously defined, to result in two or more papers as agreed upon between faculty and student. IND

CLSX 496 Honors Essay in Classical Antiquity (3). H/W Individual directed research and preparation of an essay on a topic in Classical

literature, culture, or language. Prerequisite: Eligibility for departmental honors and consent of essay adviser. IND

CLSX 501 The History of the Latin Language (3). H The place of Latin among the Indo-European languages and the languages of Italy, its development as a literary medium, and how it changed in pronunciation, vocabulary, and grammar from its beginnings through the Medieval period. LEC

CLSX 502 Development of Ancient Greece, ca. 1000-300 B.C. (3). H/W Emphasis on the ancient sources and texts, developments in political institutions and society, the changing definitions of personal, cultural, and national identities, and the cultural tensions between Greece and the cultures to the west and east, especially Italy and Persia. No knowledge of the ancient languages is required. (Same as HIST 502.) LEC

CLSX 525 Aegean Archaeology and Art (3). H/W An interdisciplinary survey of the major cultures of the prehistoric Aegean (Greek) world from the Neolithic period to the end of the Bronze Age (ca. 3000-1100 B.C.E.), with special emphasis on the cultural and artistic achievements of the Mycenaean, Minoan, and Cycladic islanders, including their contacts with the neighboring cultures of Anatolia (Hittites and Troy), the Levant, Egypt, and South Italy. Includes lecture with slides and discussion. For advanced undergraduates with backgrounds in the humanities and for graduate students (especially in Classics and History of Art). No knowledge of Greek or Latin is required. (Same as HA 525.) LEC

CLSX 526 Greek Archaeology and Art (3). H/W An interdisciplinary survey of the material culture of the ancient Greek world from the Protogeometric period to the end of the Hellenistic age (ca. 1100 - 30 B.C.E.), with emphasis on the major sites, monuments, and changing forms of social and artistic expression (e.g., architecture, sculpture, vase painting). Includes lectures with slides and discussion; use of the Wilcox Museum of Classical Antiquities. For advanced undergraduates with backgrounds in the humanities and for graduate students (especially in Classics and History of Art). No knowledge of Greek or Latin is required. (Same as HA 526.) LEC

CLSX 527 Roman Archaeology and Art (3). H/W An interdisciplinary survey of the material culture of ancient Rome from its origins to the late empire (8th c.B.C.E. - 4th c.C.E.). Emphasis on major sites, monuments, and changing forms of social and artistic expression, as well as on Etruscan and Greek influence on Rome and Rome's influence on its provinces. Includes lectures with slides and discussion; use of the Wilcox Museum of Classical Antiquities. No knowledge of Greek or Latin is required. For advanced undergraduates with backgrounds in the humanities; and for graduate students (especially in Classics and History of Art). (Same as HA 537.) LEC

CLSX 528 Archaeology and Art of Greece and Rome (3). H/W A one semester cross-cultural survey of the cultures of Greece and Rome in their broader Mediterranean context, from ca. 1000 B.C.E. - 500 C.E. Emphasis on cultural interactions on all levels (e.g. artistic, political, historical) with indigenous populations from Anatolia, the Near East, and Egypt to the Iberian Peninsula, and from North Africa to Central Europe. Includes lectures with slides and discussion; use of the Wilcox Museum of Classical Antiquities. No knowledge of Greek or Latin is required. Not open to students who have taken both CLSX 526/HA 526 and CLSX 527/HA 537, except with permission of the instructor. For advanced undergraduates with backgrounds in the humanities and for graduate students. (Same as HA 528.) LEC

CLSX 529 Archaeology and Art of the Ancient Near East (3). H A cross-cultural survey of the material remains of the major civilizations of the ancient Near East, including Anatolia, Mesopotamia, the Levant, and Egypt from Neolithic period to the rise of the Roman empire (ca. 6000 B.C.E. - 30 B.C.E.). Includes lectures with slides and discussion. For advanced undergraduates with backgrounds in the humanities and for graduate students (especially in Classics and History of Art). No knowledge of Greek or Latin is required. (Same as HA 529.) LEC

CLSX 570 Study Abroad Topics in Greek and Roman Culture: ____ (1-3). H This course is designed for the study of special topics in Classics at the junior/senior level. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

CLSX 575 Readings in: ____ (1-3). Selected readings in Greek and Roman antiquity and the classical tradition for students who desire special work on a flexible basis. No knowledge of Greek or Latin is required. May be repeated for credit if topic varies. Only six hours may count toward the major. Prerequisite: Consent of instructor. LEC

CLSX 576 Topics in Greek and Roman Literature: ____ (3). H Lecture and discussion course focusing on a theme, genre, or period of literature from the ancient classical world. No knowledge of Greek or Latin is required. May be repeated for credit if topic varies. Only 6 hours may count toward the major. LEC

CLSX 577 Topics in the Archaeology and Art of the Ancient Mediterranean: ____ (3). H Lecture and discussion course focusing on a theme, medium, region, or period in the archaeology and art of the ancient Near Eastern and classical world. May be repeated for credit if topic varies. Only 6 hours may count toward the major. LEC

CLSX 675 Studies in: ____ (1-3). H/W Selected readings in Greek and Roman antiquity and the classical tradition for students who de-

sire special work on a flexible basis. No knowledge of Greek or Latin is required. May be repeated for credit, the maximum being twelve hours. Prerequisite: Consent of instructor. IND

CLSX 717 Investigations in Greek Drama I (3).

CLSX 718 Investigations in Greek Drama II (3).

CLSX 790 Practicum in the Teaching of Classics (0.5).

● Greek Courses

GRK 104 Elementary Ancient Greek (5). U The essentials of ancient Greek grammar, with readings. LEC

GRK 105 Elementary Ancient Greek, Honors (5). U The essentials of ancient Greek grammar, with readings. Prerequisite: Membership in the University Honors Program or permission of instructor. LEC

GRK 108 Ancient Greek Readings and Grammar (5). U A continuation of Greek 104, with extensive readings from one or more classical authors. Prerequisite: GRK 104 or GRK 105. LEC

GRK 109 Ancient Greek Readings and Grammar, Honors (5). U A continuation of GRK 105, with extensive readings from one or more classical authors. Prerequisite: GRK 104 or 105; and membership in the University Honors Program or permission of instructor. LEC

GRK 112 Intermediate Ancient Greek (3). U Systematic grammar review and selected texts from Plato and Euripides. Prerequisite: GRK 108 or GRK 109 or consent of instructor. LEC

GRK 301 Philosophy and Oratory (3). H/W Systematic grammar review in conjunction with readings selected from Plato, Aristotle and the Attic orators, with attention to issues of interpretation and social and cultural history. Prerequisite: GRK 108 or GRK 109. LEC

GRK 302 Drama and Lyric Poetry (3). H/W Systematic grammar review in conjunction with readings selected from Aeschylus, Sophocles, Euripides, and the lyric poets, with attention to issues of literary interpretation and cultural history. Prerequisite: GRK 108 or GRK 109. LEC

GRK 303 Greek Narrative Prose (3). H/W Systematic grammar review in conjunction with readings selected from the historians Herodotus, Thucydides, and Xenophon, as well as from the Greek novels and the New Testament. Attention will be given to issues of interpretation and cultural history. Prerequisite: GRK 108 or GRK 109. LEC

GRK 310 Homer's *Odyssey* (3). H/W Selections from Homer's *Odyssey*, with attention to issues of literary translation and interpretation, performance, and social and cultural history. Prerequisite: GRK 301, or GRK 302, or GRK 303. LEC

GRK 312 Homer's *Iliad* (3). H/W Selections from Homer's *Iliad*, with attention to issues of literary translation and interpretation, performance, and social and cultural history. Prerequisite: GRK 301, or GRK 302, or GRK 303. LEC

GRK 375 Readings in: _____ (1-3). H/W Readings in classical Greek texts. May be repeated for up to twelve hours. Prerequisite: GRK 108 or the equivalent. IND

GRK 496 Honors Essay in Greek (3). H/W Individual directed research and preparation of an essay on a topic in Greek literature or language. Prerequisite: Eligibility for departmental honors and consent of essay adviser. IND

GRK 508 Early Greek Philosophy (3). H/W A study of the doctrines of Greek philosophy before Plato. Emphasis on the Pre-Socratic philosophers with some attention paid to the Sophists and the Hippocratic Corpus. (Same as PHIL 508.) Prerequisite: PHIL 288, or GRK 301, or GRK 302, or GRK 303, and either GRK 310 or GRK 312, or permission of instructor. LEC

GRK 701 Archaic Poetry (3).

GRK 702 Drama (3).

GRK 703 History and Oratory (3).

GRK 704 Philosophy (3).

GRK 705 Readings in Classical Greek (3).

GRK 790 Practicum in the Teaching of Greek (0.5).

GRK 798 Studies in: _____ (1-3).

● Latin Courses

LAT 100 Latin Reading Course I (4). U A special reading course for candidates for advanced degrees in other departments, designed to aid them in obtaining a reading knowledge of Latin for purposes of research. Enrollment for undergraduate credit is required. An intensive study of the fundamentals of grammar, progressing to the reading of material of medium difficulty. Intended primarily for graduate students, but open also to undergraduates with departmental permission; to be followed by LAT 101. Does not satisfy any part of the undergraduate foreign language requirement. Presupposes no previous study of Latin. LEC

LAT 101 Latin Reading Course II (3). U Rapid reading and translation of material of an advanced nature by various authors and of vari-

ous genres. A grade of "B" or better may be used to satisfy the graduate foreign language or research skill requirement. Does not satisfy any part of the undergraduate foreign language requirement. Prerequisite: LAT 100 or consent of instructor. LEC

LAT 104 Elementary Latin (5). U The basic essentials of the Latin language. LEC

LAT 105 Elementary Latin, Honors (5). U Integrates study of elementary Latin with study of Roman culture. Prerequisite: Admission to Honors Program or consent of instructor. LEC

LAT 108 Latin Reading and Grammar (5). U Latin grammar concluded, with selected readings. Prerequisite: LAT 104 or LAT 105 or appropriate placement score. LEC

LAT 109 Latin Readings and Grammar, Honors (5). U Continuation of LAT 105. Integrates study of elementary Latin with study of Roman culture. Prerequisite: LAT 105. LEC

LAT 112 Readings in Latin Literature (3). U Systematic grammar review and selected texts from Caesar, Catullus, and Horace, with attention to literary interpretation and historical background. Prerequisite: LAT 108, LAT 109, placement score of 46-60, or permission of instructor. LEC

LAT 113 Readings in Latin Literature, Honors (3). U Systematic grammar review and selected texts from a prose author, Catullus, and Horace. Attention to literary history and interpretation. Exercises in prose composition. Prerequisite: LAT 109 or permission of department/consent of instructor. LEC

LAT 200 Vergil's *Aeneid* (3). H/W Selections from Vergil's *Aeneid*, with attention to literary interpretation and literary history. Prerequisite: LAT 112 or placement score of 61-70. LEC

LAT 201 Vergil's *Aeneid*, Honors (3). H/W Selections from Vergil's *Aeneid*, with attention to literary history. Exercises in literary interpretation and verse composition. Prerequisite: LAT 113 or consent of instructor. LEC

LAT 300 Intermediate Latin Composition (3). H/W Composition in Latin stressing the basic principles of Latin syntax and style. Recommended for freshmen and sophomores contemplating a major in Latin. Prerequisite: LAT 200 or LAT 201. LEC

LAT 301 Prose Fiction and Epistolography (3). H/W Thematically oriented readings selected from the following authors: Apuleius, Cicero, Petronius, and Pliny, with attention to literary interpretation and social and cultural history. Prerequisite: LAT 200 or LAT 201, or placement score of 71 or above. LEC

LAT 302 Hexameter Poetry (3). H/W Thematically oriented readings selected from the following authors: Lucretius, Ovid, Vergil, and the satirists, with attention to literary interpretation and social and cultural history. Prerequisite: LAT 200 or LAT 201, or placement score of 71 or above. LEC

LAT 303 Roman Historians (3). H/W Thematically oriented readings selected from the following authors: Caesar, Cicero, Livy, Salust, Suetonius, and Tacitus, with attention to issues in Roman history and historiography. Prerequisite: LAT 200 or LAT 201, or placement score of 71 or above. LEC

LAT 304 Lyric and Elegiac Poetry (3). H/W Thematically oriented readings selected from the following authors: Catullus, Horace, Martial, Ovid, Propertius, Sulpicia, and Tibullus, with attention to literary interpretation and social and cultural history. Prerequisite: LAT 200 or LAT 201, or placement score of 71 or above. LEC

LAT 305 Roman Drama (3). H/W Thematically oriented readings selected from the following authors: Plautus, Terence, and Seneca, with attention to issues of interpretation, theatre history, and performance. Prerequisite: LAT 200 or LAT 201, or placement score of 71 or above. LEC

LAT 375 Readings in: _____ (1-3). H/W Readings in Latin literature, selected in consultation with the instructor. May be repeated for up to twelve hours. Prerequisite: LAT 200 or LAT 201, or consent of instructor. IND

LAT 496 Honors Essay in Latin (3). H/W Individual directed research and preparation of an essay on a topic in Latin literature or language. Prerequisite: Eligibility for departmental honors and consent of essay adviser. IND

LAT 700 Advanced Latin Prose Composition (3).

LAT 701 Epic Poetry (3).

LAT 702 Lyric and Elegy (3).

LAT 703 History, Oratory, Philosophy (3).

LAT 704 Drama, Satire, and Novel (3).

LAT 705 Readings in Classical Latin (3).

LAT 790 Practicum in the Teaching of Latin (0.5).

LAT 791 Seminar in the Teaching of Latin (3).

LAT 798 Studies in: _____ (1-3).

KU's debate team finished no. 1 in the nation based on National Debate Tournament varsity rankings for total points earned in competitions in the 2005-06 season.

In 40 years of national debate tournaments, KU teams have qualified more often than any others.

Information about the communication studies major is available in 102 Bailey Hall.

Communication Studies

Chair: Robert Rowland
Bailey Hall, 1440 Jayhawk Blvd., Room 102
Lawrence, KS 66045-7574
(785) 864-3633, www.ku.edu/~coms

Degrees offered: B.A., B.G.S., M.A., Ph.D.

Majors

The department offers a broad view of human communication. This includes management of conflict; communication in intimate, friendship, family, and work relationships; communication and new technologies; communication in legal settings; interaction in groups and committees; communication in organizations; speech writing; study of persuasion and public influence; and intercultural communication.

A major in communication studies is helpful for careers in business and industry, education, foreign service, health care, human resources, law, politics and government, public relations, religion, sales and marketing, social service agencies, and technology. All occupations and human concerns involve communication in some form.

Admission to the Major. Students are admitted to the major by application. Forms are available in 102 Bailey Hall and on the department's Web site. Review of applications is based on

1. A minimum grade-point average of 2.5 in COMS 130 and an additional course chosen from COMS 104, COMS 235, COMS 244, COMS 246, COMS 310, or COMS 332, or at least a C in one course plus a waived course. The grade-point average in all COMS courses taken is used in determining admission.
2. An overall grade-point average of *at least* 2.0 and completion of 30 hours of course work.
3. A statement explaining why the student wants to major in communication studies. The committee considers the content of that statement as well as information supplied by the student to enhance an argument for admission (such as membership in a protected class, extraordinary problems that led to a lower grade-point average, etc.).
4. Consultations with communication studies faculty members or graduate teaching assistants listed by the student as references and, if necessary, a supplementary interview with the student.

Applications are accepted during the first two weeks in September for the fall semester and the first two weeks in February for the spring semester. Admission is influenced by the number of open slots for majors in a given year, which may vary according to the resources of the department and the number of majors graduating or leaving the department. Meeting the minimum criteria for application does not guarantee admission to the major. A committee strongly considers academic performance in selecting students. However, the department is committed to promoting diversity in its programs, and evaluation of applications is guided by principles of affirmative action. Students whose performance shows considerable progress over time, who offer particularly engaging rationales for wishing to major in the department, or who demonstrate considerable concern for their studies receive favorable attention.

Notification is made no later than October 15 and March 15 for fall and spring semesters respectively. Details are available in the department office and on the Web site.

Requirements for the B.A. or B.G.S. Major.

- (1) Completion of COMS 130 or a waiver.
- (2) *Thirty additional hours* in the department that satisfy a, b, c, and d below.

- a. Research Methods** (both courses)
COMS 235 Introduction to Rhetoric and Social Influence
COMS 356 Introduction to Behavioral Research Methods in Communication
- b. Communication Theory** (two courses)
COMS 244 Introduction to Interpersonal Communication Theory
COMS 246 Introduction to Intercultural Communication
COMS 310 Introduction to Organizational Communication
COMS 320 Communication on the Internet
COMS 332 The Rhetorical Tradition
- c. Skill** (two courses)
COMS 231 Practicum in Forensics (3 hours)
COMS 330 Effective Business Communication
COMS 331 Persuasive Speaking
COMS 342 Problem-solving in Teams and Groups
COMS 344 Relational Communication
COMS 548 Theories of the Interview
COMS 605 Speech Writing

One of the two skill courses must be either COMS 330 or COMS 331.

d. COMS Electives. Twelve additional hours of COMS courses selected from COMS 104 and/or COMS 200-level courses or above.

Requirements for the Minor. The minor requires completion of COMS 130 and an additional 18 hours in the department, 12 of which must be at the 300 level or above.

Honors. Outstanding students may graduate with departmental honors if they meet the following criteria:

1. A grade-point average at the time of graduation of at least 3.25 overall and 3.5 in communication studies courses.
2. Completion of an honors thesis involving independent research—either a single comprehensive project or an integration of several related projects. Completion requires satisfactory defense of the thesis in an oral examination and submission of a satisfactory thesis manuscript to the department office by one month before graduation.

Independent research for the thesis must be conducted under the direction of a faculty member. The student must be enrolled with that instructor in 2 to 6 hours of COMS 498, usually over two semesters.

Leadership Studies Minor

Coordinator: Mary C. Banwart, mbanwart@ku.edu
104B Bailey Hall, (785) 864-5681
www.deanofstudents.ku.edu/leadership

Requirements for the Minor. Leadership studies is a 19-credit-hour interdisciplinary minor offered through the communication studies department. Students must apply for admission to the minor while taking COMS 201 Introduction to Leadership Studies. Admission is a prerequisite for the subsequent COMS courses in the minor. Course work involves studying theory and research in leadership and applying it to students' leadership experiences. Communication studies majors may earn a minor in leadership studies, but the COMS courses required for the minor cannot be used to fulfill communication studies major requirements.

The minor requires 19 hours, as follows:

COMS 201 Introduction to Leadership	1
COMS 431 Communication and Leadership	3
COMS 531 Seminar in Leadership Strategies and Applications	3
COMS 532 Leadership Studies Practicum	3
*Ethics course	3
*Community development course	3
*Leadership, diversity, and culture course	3

*See the Web site or contact the coordinator for a current list of approved courses that satisfy these requirements.

● Communication Studies Courses

COMS 104 Introduction to Communication Studies (3). H Survey of the major areas of the Communication Studies field. Provides an overview of communication theory and research methods, and introduces key topics, approaches, and applications in core areas such as rhetoric, organizational communication, interpersonal communication, intercultural communication, and communication technology. LEC

COMS 130 Speaker-audience Communication (3). U Study of rhetorical theory and its application to the preparation, presentation, and crit-

icism of oral discourse in audience situations. Special consideration of listening behavior and of the ethical conduct of speech in a free society. This course fulfills the College oral communication requirement. Not open to students with credit in COMS 150/COMS 151. LEC

COMS 131 Speaker-audience Communication, Honors (3). U The study of rhetorical theory and its application to the preparation, presentation, and criticism of oral discourse in audience situations. Special consideration of listening behavior and of the ethical conduct of speech in a free society. This course fulfills the College oral communication requirement. Not open to students with credit in COMS 150/151. This is an honors section of COMS 130 open only to students in the Honors Program. LEC

COMS 150 Personal Communication (3). U This course is an introduction to communication theory, process, and skill. The course seeks to increase the student's understanding of communication theory, both interpersonal and public, and of his or her own communicative behavior. Class projects and participation urge students to apply this theoretical knowledge to a variety of settings, including interpersonal and addressing groups and audiences. This course does not fulfill the College Oral Communication requirement. Not open to those who have credit in COMS 130. LEC

COMS 201 Introduction to Leadership (1). H This course introduces the Leadership Studies Minor. Students read, discuss, and do written assignments related to theories and research on the core themes of leadership, focusing on how course material relates to their own leadership experiences. Not open to seniors. LEC

COMS 230 Fundamentals of Debate (3). U Introduction to the principles of debating. Emphasis on debating techniques, analysis of the question, methods of using evidence, refutation, and brief making. This course fulfills the College oral communication requirement. LEC

COMS 231 Practicum in Forensics (1). U For students selected by faculty supervisor for work on university debate squad. Students to enroll at time of their selection. Recurring enrollments permitted. FLD

COMS 235 Introduction to Rhetoric and Social Influence (3). HL H This course examines in detail the texts of speeches and essays on controversial issues in order to illustrate the varied forms of rhetorical action and the diverse modes of analysis and evaluation that can be applied to them. Examples are drawn from the rhetorical literature of contemporary U.S. speakers and prose writers. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 238 Cases in Persuasion (3). H An exploration of basic principles that explain the effect and effectiveness of the arts of persuasion currently practiced in American society. Class discussions of incidents leading to the discovery of principles and theories that explain them. Continuing emphasis on issues concerning the ethical character of persuasion in contemporary life. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 244 Introduction to Interpersonal Communication Theory (3). SI S Examines basic theoretical perspectives and research on verbal and non-verbal communication elements affecting communication between individuals in a variety of contexts. Topics include communication competence, developmental aspects of interpersonal communication, and interpersonal influence. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 246 Introduction to Intercultural Communication (3). S This course attempts to provide an understanding of communication as it affects culture and as it is affected by culture. Special emphasis will be placed on the principle of similarity and differences as it relates to the roles of verbal and non-verbal symbols, codes, and cues, stereotypes, prejudices and value and thought patterning systems between and among cultures. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 310 Introduction to Organizational Communication (3). SC S This course provides a foundation for the study of communication in organizational contexts. It introduces students to various organization theories including classical, human relations, systems, and cultural approaches and examines the role of communication in each. Information flow, communication climate, communication networks, work relationships and managerial communication are discussed as well as organizational symbolism, conflict resolution, rituals and ethics. The course is designed to heighten students' awareness of the role of communication in the organizing process and to develop their abilities to diagnose and prevent communication-related problems. Prerequisite: COMS 130 or COMS 150. LEC

COMS 320 Communication on the Internet (3). S This course introduces social and communication issues in the context of online interaction. Surveys a range of social internet technologies (e.g., newsgroups, chat, MUDs, etc.). Focus is on the interpersonal topics, including the establishment and maintenance of individual and cultural identities, personal relationships, the emergence of online communities, power and conflict in online groups, language use in online contexts, and how online groups are used to enhance or alter civic and global cultures. LEC

COMS 330 Effective Business Communication (3). S The purpose of this course is to develop effective written, spoken, and electronically mediated communication skills necessary for business. Students will write short technical reports, plan meetings and conferences, prepare and present briefings and persuasive proposals with visual aids, and examine the use of new communication technologies. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 331 Persuasive Speaking (3). H Guided experiences in the preparation and presentation of discourse intended to influence outcomes of human interactions in various speaker-audience situations, including television. Special emphasis on speech styles in influencing thought, attitudes, and behavior. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 332 The Rhetorical Tradition (3). HR H Historical survey of theories of communication and persuasion, the people who produced them, and the philosophical assumptions upon which they rest. Beginning with the Greeks, especially Plato and Aristotle, and ending with selections from Kenneth Burke and other contemporary figures, the course focuses on changing concepts of rhetoric throughout a time span of some 2000 years. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 335 Rhetoric, Politics and the Mass Media (3). H This course investigates the ways in which rhetorical strategies (persuasive and linguistic usage) permeate the relationship between politics and politicians and the mass media. We will analyze media coverage of political debates, the presidential use of radio, television and press conferences, and the network evening news coverage of political events to see how political decisions are influenced by and influence the media. (Same as POLS 521.) Prerequisite: COMS 130 or COMS 150. LEC

COMS 342 Problem-solving in Teams and Groups (3). S This course introduces basic concepts important to leading and/or participating in problem-solving work teams. Problem identification and analysis and leadership are emphasized and practiced. Teamwork variables are discussed and promoted. Lecture, demonstrations, exercises in class are structure for students to analyze groups outside of class. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 344 Relational Communication (3). S This course studies communication issues, theories, research and skills applicable to sustaining and enriching long-term relationships, such as families, friendships and close workplace collaborations. Emphasis is given to applying course concepts to students' own relationships and interaction in class. Prerequisite: COMS 244. LEC

COMS 356 Introduction to Behavioral Research Methods in Communication (3). S An introduction to the nature of theory and theory building in the study of human communication. Research methods include experimentation, survey, content analysis, and field description. An introduction to statistics and statistical tests is included as well. Prerequisite: Admission to the Communication Studies major or consent of instructor. LEC

COMS 410 Micro-level Organizational Communication (3). S An examination of dyadic level communication in organizations, with emphasis on contexts of superior-subordinate and peer communication. The course also addresses contexts of organizational entry and exit, perception and judgment, information seeking, feedback, and organizational attachment. Prerequisite: COMS 310. LEC

COMS 420 Communication, Technology, and Globalization (3). H Examines the social, cultural, and economic challenges and opportunities advanced communication technologies and globalization pose to processes such as democratic deliberation, urban governance, and environmental sustainability. Prerequisite: COMS 130. LEC

COMS 431 Communication and Leadership (3). H This course provides an overview of the role of communication in leadership in a variety of contexts, including: interpersonal, small group, intercultural, organizational, and public sphere. It will include theoretical and experiential approaches to effective leadership communication. Prerequisite: Admission to Leadership Minor or consent of instructor. LEC

COMS 435 Forms and Styles of American Public Discourse (3). H Changing styles of public discourse are examined from the beginning of the nation to contemporary times, and the generic forms of address that have emerged from our national dialogue, such as jeremiads, inaugurations and apologies, are studied from a formist perspective. Prerequisite: COMS 235. LEC

COMS 440 Communication and Gender (3). S Focuses attention on the relationship between communication and gender, including both physical and psychological dimensions. Topics include: sex role orientations and stereotypes; perceived and actual differences in verbal and nonverbal communication behaviors; the influence of gender on communication in a variety of contexts. Prerequisite: COMS 356 or an equivalent research methods course. LEC

COMS 441 Health Communication (3). H This course is a survey of the many disciplines found in the field of health communication, including persuasion that targets health-related behavior, negotiation of treatment with health care providers, emotional support of patients, news media coverage of medical research, and health campaign principles. Prerequisite: COMS 130. LEC

COMS 447 Intercultural Communication: The Afro-American (3). H/W An examination of the barriers to effective communication between black Americans and non-black Americans. (Same as AAAS 420.) Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 455 Loving Relationships (3). H Theories and elements of love in a variety of types of relationships, with attention to religious ethical traditions and social and behavioral sciences. Includes small group discussions and application to personal experience. (Same as REL 475.) Prerequisite: Junior standing or above. LEC

A minor in leadership studies is available through communication studies.

The Kyou portal gives Lawrence and Edwards Campus students access to many online services and resources. Visit <https://students.ku.edu>.

In a 2006 survey, MetroFreeFi.com, an online directory of free hotspots, ranked Lawrence second among all college towns for the number of free hotspots available.

COMS 459 Undergraduate Seminar in: ____ (1-3). H Course organized any given semester to study particular subject matter or to take advantage of special competence by an individual faculty member. Topics change as needs and resources develop. Class discussion, readings, and individual projects. (Distribution credit given for two or three hours only.) LEC

COMS 460 Undergraduate Seminar in: ____ (1-3). S Course organized any given semester to study particular subject matter or to take advantage of special competence by an individual faculty member. Topics change as needs and resources develop. Class discussion, readings, and individual projects. (Distribution credit given for two or three hour enrollments only.) LEC

COMS 497 Honors Seminar (3). H This course is intended for honor students who want to learn more about the history of communication studies, major areas of research, or more in-depth knowledge about special communication-related topics. Areas to be covered may change as needs and resources change. LEC

COMS 498 Honors Thesis (2-6). H (Six hours maximum credit, which may be distributed through two semesters.) Study should include readings directed toward original research, i.e., an intensive investigation of a specific problem in this field. Prerequisite: Consent of the Department Honors Committee. IND

COMS 499 Directed Study in Communication Studies (1-3). H (A maximum of six hours of credit may be counted, with not more than four in a single area of study.) Investigation of a special topic or project selected by the student with advice, approval, and supervision of an instructor. Such study may take the form of directed reading, or special research, individual reports and conferences. (Distribution credit given for two-three hours only.) Prerequisite: At least seven hours of credit in the department and consent of instructor. IND

COMS 530 Internship in Communication Studies (1-3). S Students do communication-centered fieldwork in an organization related to their career goals. Criteria for the organizations and work assignments suitable for internship credit are in an information brochure available at the COMS Department office and website. The internship plan is developed with field supervisor and internship faculty adviser. Reports and meetings are required. Prerequisite: Permission of instructor, admission to COMS major. FLD

COMS 531 Seminar in Leadership Strategies and Applications (3). H This seminar serves as the capstone course for the Leadership Studies minor. It includes advanced readings on leadership theory and practice, as well as major written and applied projects in which students integrate and demonstrate what they have learned in the program. Prerequisite: COMS 201, COMS 431, and admission to the Leadership Studies minor. LEC

COMS 532 Leadership Studies Practicum (1-3). U Students engage in a variety of training programs and field experiences in which they learn about leadership, observe leaders in action, and involve themselves in leadership activities. Written assignments and group discussions are used to analyze their learning. Should be taken for a total of three credit hours, across more than one semester. Prerequisite: COMS 201 and admission to the Leadership Studies minor. FLD

COMS 535 American Public Address, Puritans to 1900 (3). H A history of American public address from the Puritans to about 1900. Using the tools of rhetorical criticism, students describe, analyze, and evaluate select rhetoric from the period. Graduate students are assigned extra reading and a research paper. Prerequisite: COMS 235. LEC

COMS 536 American Public Address, 1900-Present (3). H A history of American public address from 1900 to the present. Using the tools of rhetorical criticism, students describe, analyze, and evaluate select rhetoric from the period. Graduate students are assigned extra reading and a research paper. Prerequisite: COMS 235. LEC

COMS 537 Communication in Conflict Resolution (3). S An examination of conflict situations and the manner in which communication can serve as a vehicle for their intensification or resolution. The focus is on the theory of games as it applies to conflict within interpersonal situations; implications will be drawn for larger social systems. Prerequisite: COMS 356 or an equivalent research methods course. LEC

COMS 538 Persuasion Theory and Research (3). S This course focuses on the social scientific study of persuasion. Traditional theories of attitude change and persuasion research are studied along with techniques of measuring attitudes. Attention is also given to the attitude-behavior relationship and the production of compliance-gaining messages. Prerequisite: COMS 356 or an equivalent research methods course. LEC

COMS 539 Argumentation (3). S Analysis of the theory and techniques of argumentation in historical and contemporary writings, with special emphasis on the works of Aristotle, John Stuart Mill, Richard Whately, and Stephen Toulmin. Application of argumentation theory to political and legal discourse. Opportunity for student performances in the preparation and criticism of argument. Prerequisite: Four hours in the department. LEC

COMS 543 Group Leadership Practicum (1-3). S Theory and practice in leadership of small group interaction. Includes responsibility for conducting a semester-long series of group meetings in an educational context under the supervision of faculty, study and training in leadership skills, a weekly practicum seminar, and individual conferences with supervising

instructor. May be taken more than once, but not for more than four hours total credit. (Distribution credit given for two-three hours only.) Prerequisite: COMS 344, COMS 455, and permission of instructor. FLD

COMS 544 Advanced Interpersonal Communication: Theories and Research (3). S Intensive exploration of contemporary theories and research in the field of interpersonal communication; emphasis on an array of theoretical models and research exemplars; comparative analysis of major theoretical and research paradigms. Prerequisite: COMS 244 and COMS 356 or an equivalent research methods course. LEC

COMS 545 Narratives in Oral Communication (3). H This course covers the types, structure, and presentation of oral narratives as they are used in public address, organizational leadership, conversation, spiritual discourse, parenting, counseling, and other contexts. Prerequisite: COMS 130. LEC

COMS 546 Communication Across the Life Span (3). S Examination of the ways in which communication changes across the life-span, and influences human development. Course will include topics such as barriers to communication among elderly populations; communication and mis-communication across generations; the role of language in constructing life-span development (e.g., the mid-life crisis); development of language and social interaction during childhood; peer relationships and communication in adolescence; uses and effects of mass communication across the life-span. Prerequisite: COMS 244 and COMS 356. LEC

COMS 547 Communication and Culture (3). S A study of the systematic relationship between communication and culture. Emphasis is on culture as a variable in communicative situations: cultural aspects of attitude and cognition, language interchange, cultural differences in extra-verbal behavior, interaction between oral traditions and mass media. Prerequisite: COMS 130, COMS 150, COMS 230, or an introduction course in anthropology. LEC

COMS 548 Theories of the Interview (3). S Comprehensive study of communication processes in dyadic, face-to-face situations commonly encountered in organizations and professional environments. Intensive analysis of simulated and real-life interviews. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 549 Communication in Service and Sales (3). S This course will deal with communication between organizational personnel and their customers or clients. Case studies and research concerning communication behaviors of service providers and salespeople will be covered. Prerequisite: COMS 310. LEC

COMS 550 Ethical Issues in Public Communication (3). H Application of ethical standards to the evaluation of public communication. Examination of value questions related to advocacy in modern society (propaganda, demagoguery, credibility). Analysis of First Amendment rights and other issues pertaining to censorship and freedom of speech (defamation, dissent, incitement, public morals, privacy). Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 551 The Rhetoric of Black Americans (3). H/W A study of the rhetoric of black Americans, from their earliest protest efforts to the contemporary scene, with focus on the methods and themes employed to alter their status in American society. (Same as AAAS 534.) Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 552 The Rhetoric of Women's Rights (3). H An analysis of the themes and rhetorical strategies of the women's rights movement in America. The course will view the struggle for women's rights from a historical perspective and will conclude with contemporary issues concerning the role of women in society. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 553 Communication in Political Campaigns (3). H This course examines political communication as it evolves throughout a political campaign and includes such topics as theories and strategies, stages in political campaigns, influence of the mass media, television advertising, candidate debates, polling, and the use of new technologies in delivering campaign communication. Selected examples from recent campaigns illustrate the strategies and effects of political communication as we examine how politicians persuade us to vote for them. Prerequisite: A course in communication studies. LEC

COMS 559 Seminar in: ____ (1-3). H Course organized any given semester to study particular subject matter or to take advantage of special competence by an individual faculty member. Topics change as needs and resources develop. Class discussion, readings, and individual projects. (Distribution credit given for two-three hours only.) LEC

COMS 560 Seminar in: ____ (1-3). S Course organized any given semester to study particular subject matter or to take advantage of special competence by an individual faculty member. Topics change as needs and resources develop. Class discussion, readings, and individual projects. (Distribution credit given for two-three hours only.) LEC

COMS 590 Nonverbal Communication (3). S Examination of non-linguistic behavior in human communication, including proxemics (spacing), kinesics (movement and expression), and paralinguistics (voice quality). Includes phylogenetic and developmental perspectives, methods of analysis, applications to interpersonal problems. (Same as PSYC 590.) Prerequisite: COMS 356 or PSYC 300. LEC

COMS 603 Topics in Presidential Rhetoric: ____ (3). H This course involves an examination of presidential rhetoric, including a focus on the

KU is the only university in Kansas offering regular instruction in the languages, literatures, and cultures of East Asia.

Courses in Uyghur are offered through the Department of East Asian Languages and Cultures.

The CLAS Dean's Scholars Program offers 20 scholarships a year to high-ability U.S. ethnic minority undergraduates.

strategies present in presidential discourse, the function that this rhetoric serves, and the historical context in which it was presented. One or more important presidential rhetors will be covered each semester. This course can be repeated for credit if taken under a different topic. LEC

COMS 605 Speech Writing (3). H Emphasis is on actual practice in preparing speech manuscripts for oneself and others. Model speeches are examined to better understand language, evidence, and stylistic choices available to speech writers. The ethical dimensions of writing for others in corporate and political positions are stressed. Students are required to prepare a variety of speeches and analyses of others' speeches. Prerequisite: COMS 130, COMS 150, or COMS 230. LEC

COMS 607 Political Communication (3). H This course will focus on contemporary political communication theory and illustrate how such theories are exemplified in modern political contexts: political arguments and developing consensus, constitutional issues and hearings, the rhetorical presidency, the dissemination of political information, and political uses of definition. (Same as POLS 520.) Prerequisite: COMS 130 or COMS 150. LEC

COMS 620 Communication and New Technology (3). S This course explores the impact of new communication technology on individuals and groups in various contexts. Topics include: The development of computer-mediated communication, social and psychological impacts of new communication technology, the evolution of telework and advances in interactive telecommunications. LEC

COMS 639 Legal Communication (3). S An analysis of how communication principles and theories operate within the context of the legal system. Topics covered will include the lawyer/client interview, depositions and pre-trial discovery, settlement negotiation, jury selection, opening and closing statements, and witness testimony. Prerequisite: COMS 130 or COMS 150. LEC

COMS 647 Issues in Intercultural Communication (3). S Examination of the processes and factors affecting communication in an intercultural context, and of methods of training for intercultural communication roles. Prerequisite: COMS 547 and an introductory course in anthropology, or consent of instructor. LEC

COMS 667 Interpersonal Communication in Multinational Organizations (3). A study of interpersonal communication in management and professional development in intercultural situations. Focus on preparation of the global manager or professional in the organizational environment. Special attention to the problems and challenges of intercultural interactions in the context of multinational organizations. LEC

COMS 669 Human Conflict and Peace (3). H Study of religious, cultural, and social traditions toward understanding the nature and purposes of human conflict. Analysis of various meanings of peace, with emphasis on study of nonviolent approaches to management of conflict. Class discussion, readings, and individual research projects. (Same as REL 669.) Prerequisite: Junior standing or above. LEC

COMS 710 Survey of Theory and Research in Organizational Communication (3).

COMS 730 Writing and Speaking for Decision Makers (3).

COMS 741 Special Topics in Communication Studies: _____ (2-3).

COMS 784 Proseminar in Communication and Aging (1).

COMS 787 Gerontology Proseminar (3).

Computer Science

See Electrical Engineering and Computer Science in the School of Engineering chapter of this catalog.

Croatian and Serbian

See Slavic Languages and Literatures.

Czech

See Slavic Languages and Literatures.

Dance

See the School of Fine Arts chapter of this catalog.

Danish

See Germanic Languages and Literatures.

Dentistry (Predental Study)

See Premedical Professions in this chapter of the catalog.

Design

See the School of Fine Arts chapter of this catalog.

Developmental Psychology

The B.A. and B.G.S. degrees in developmental psychology offered on the KU Edwards Campus are described under psychology in this chapter of the catalog.

Dutch

See Germanic Languages and Literatures.

East Asian Area Studies

See East Asian Languages and Cultures.

East Asian Languages and Cultures

Chair: Keith McMahon

Wescoe Hall, 1445 Jayhawk Blvd., Room 2118

Lawrence, KS 66045-7590

(785) 864-3100, www.ku.edu/~ealc

Degrees offered: B.A., M.A.

The department offers a full program of instruction in the languages, literatures, and cultures of China and Japan and introductory courses in Korean language.

The areas of East Asia covered represent two of the oldest continuous civilizations in the world. The great historical contributions of China and Japan in literature, philosophy, and art are studied throughout the world. The highly advanced industries of Japan, the enormous human resources of mainland China, and the rapidly growing economies of Korea and Taiwan have contributed to the development of valuable socio-political and economic ties between these areas and the United States. The program trains people to become effective links between the Far East and the United States.

Courses for Nonmajors

Courses available to nonlanguage specialists are listed under East Asian Languages and Cultures Courses.

Placement

To be eligible for enrollment in the second year of Chinese or Japanese, a student must have earned college credit for the first year or must have earned two years of high school credit in that language, or consult the departmental office.

Retroactive Credit. Students with no prior college or university Chinese or Japanese course credit are eligible for retroactive credit according to this formula:

Students with two or three years of high school study who enroll in second-semester Chinese or Japanese (CHIN 108 or JPN 108) and earn grades of C or higher may receive 2 hours of retroactive credit.

Students with three or four years of high school study who enroll in third-semester Chinese or Japanese (CHIN 204 or JPN 204) and earn grades of C or higher may receive 5 hours of retroactive credit.

Students with four years of high school study who enroll in fourth-semester Chinese or Japanese (CHIN 208 or JPN 208) and earn grades of C or higher may receive 7 hours of retroactive credit.

Major and Concentration

For undergraduates in the department, the B.A. degree in East Asian languages and cultures is available, with one of the following three concentrations:

1. Chinese language and literature.
2. Japanese language and literature.
3. East Asian studies.

First- and Second-year Preparation. Prospective majors should begin language study as early as possible. Because students are expected to have a broad humanistic background in the East Asian area, they should confer with an undergraduate adviser early to structure a program to satisfy this requirement.

Requirements for the B.A. Degree: Chinese or Japanese Language and Literature Concentration.

At least 31 credit hours of junior/senior-level courses (22 within EALC) are required, including ECIV 304 or ECIV 305 Eastern Civilizations, one semester of fourth-year Chinese or Japanese language courses, and for Chinese majors only, one year of classical Chinese. Students must take at least one course at the 300 level or above in the literature of the country of their concentrations, one course each in premodern and modern culture/history of that country, and at least one EALC 500-level course that requires a substantial research paper. Students may not take more than 5 hours of directed readings in a language.

Requirements for the B.A. Degree: East Asian Area Studies Concentration.

At least 31 hours of junior/senior-level courses are required, including ECIV 304 or ECIV 305 Eastern Civilizations and a full third year of course work in an East Asian language. Students must take premodern and modern history sequences in the country of concentration (EALC/HIST 583 and EALC/HIST 584 or EALC/HIST 585 or EALC/HIST 586 or EALC/HIST 587 and EALC/HIST 588 or EALC/HIST 589) and the remaining hours from Asia-related courses (at least one course each in humanities and social sciences). Students must take one course wholly on an East Asian country other than the country of their concentrations. They also must take at least one EALC 500-level course that requires a substantial research paper. Students may not take more than 3 hours of directed readings in a language.

Requirements for the Minor. The department offers two minors. The first requires 19 credit hours (12 hours at the junior/senior level), which must include completion of the third year of an East Asian language (10 hours) or equivalent

Three courses (9 hours, taught in English at the junior/senior level) about Chinese, Japanese, or Korean culture, depending on the student's language of concentration

The second minor requires completion of the second year of an East Asian language or equivalent and an additional 18 hours, which include

For the Chinese concentration, EALC/HIST 585 and EALC/HIST 586
For the Japanese concentration, EALC/HIST 586 or EALC/HIST 587 and EALC/HIST 588 or EALC/HIST 589

For the Korean concentration, EALC 590 Topics in East Asian Languages and Cultures: Korean Culture, which can be taken twice with two different topics (Consult an adviser.)

Four courses (12 hours, taught in English at the junior/senior level) about Chinese, Japanese, or Korean culture, depending on the student's language of concentration

Honors. The department awards honors to students who demonstrate exceptional academic achievement. Students should make their intentions known in writing before the final undergraduate semester, preferably during the junior year. The candidate must achieve a minimum overall grade-point average of 3.25 and a minimum of 3.5 in the major and complete EALC 499 with a grade of B or higher. In EALC 499, the student writes an honors thesis under the supervision of a faculty member. Two faculty members evaluate the thesis.

Eastern Civilizations

The Eastern civilizations program promotes a broad understanding of the civilizations of China, Japan, and to a limited extent, Korea. ECIV 104 Eastern Civilizations consists of readings from the major works of East Asian thought, religion, and literature.

Study Abroad

KU offers academic-year-abroad, direct-exchange programs for undergraduates and graduates in the People's Republic of China (Hong Kong, Nankai, Nanjing, and Zhengzhou universities), and helps students find programs in the Republic of China (National Taiwan Normal University), Japan, and the Republic of Korea. Credit earned is usually similar to credit earned during an academic year at KU, and costs are about the same. Some scholarship aid is available. Consult the department or the Office of Study Abroad for information.

Chinese Courses

CHIN 100 Moderated Beginning Chinese I (3). U Three hours of class per week plus outside use of tape recorded drill materials. An introduction to Mandarin Chinese (Gwo Yu), the national language of China. Familiarity with the basic structural patterns of the language is stressed through general conversation. LEC

CHIN 101 Moderated Beginning Chinese II (3). U Continuation of CHIN 100. In addition to the general conversational Chinese, the students also learn to recognize a list of most commonly used Chinese characters. Completion of this course is approximately equivalent to completion of CHIN 104. Prerequisite: CHIN 100 or equivalent. LEC

CHIN 102 Beginning Chinese I (5). U Introduction to Mandarin Chinese. Taught mainly in the summer, this course covers about half of the material in CHIN 104, upon which this course is modeled. LEC

CHIN 104 Elementary Chinese I (5). U Five hours of class and two of drill in the spoken language each week. Grammar and readings in selected texts. LEC

CHIN 106 Beginning Chinese II (5). U Continuation of CHIN 102. Takes students to the end of CHIN 104 and into the first third of CHIN 108. LEC

CHIN 108 Elementary Chinese II (5). U Continuation of CHIN 104. Prerequisite: CHIN 101, CHIN 104, or equivalent. LEC

CHIN 148 Intensive Elementary Chinese (10-12). U An accelerated one semester course in elementary Chinese, covering the material of CHIN 104 and CHIN 108. Classes meet for two hours of lecture and one hour of drill daily. Emphasis on spoken language with grammar and readings in selected texts. No prerequisite. LEC

CHIN 204 Intermediate Chinese I (5). U Five hours of class and two hours of spoken drill. Readings in selected texts in modern Chinese. Prerequisite: CHIN 108 or equivalent. LEC

CHIN 206 Intermediate Chinese Conversation (2). U Practice in speaking, presentation of prepared talks, and guided discussions. Prerequisite: CHIN 204 or equivalent. FLD

CHIN 208 Intermediate Chinese II (5). U Continuation of CHIN 204. Prerequisite: CHIN 204. LEC

CHIN 290 Accelerated Chinese (3). U Instruction in reading and writing Chinese for students who already possess a degree of oral/aural proficiency. This course will prepare students for enrollment in CHIN 504, Advanced Modern Chinese I. No prerequisites. Consent of instructor required. LEC

CHIN 386 Advanced Chinese Conversation (2). U Guided discussions designed to increase fluency and further improve pronunciation. Prerequisite: CHIN 504 or equivalent. LEC

CHIN 498 Directed Readings in Chinese (1-4). H/W Readings in Chinese on a subject selected by a student with the advice and direction of the instructor. Individual meetings and reports. Prerequisite: Consent of instructor. IND

CHIN 504 Advanced Modern Chinese I (5). H/W Five hours of class and two of drill. Readings in selected modern Chinese literary texts and discussion in Chinese of recordings of stories and dramas. Prerequisite: CHIN 208 or equivalent. LEC

CHIN 508 Advanced Modern Chinese II (5). H/W Continuation of CHIN 504. Prerequisite: CHIN 504 or equivalent. LEC

CHIN 512 Advanced Chinese I (2). H/W Readings in modern Chinese texts on a variety of subjects and discussion in Chinese. Prerequisite: CHIN 218 or equivalent. LEC

CHIN 513 Advanced Chinese II (2). H/W Continuation of CHIN 512. Prerequisite: CHIN 512 or equivalent. LEC

The Ermal Garlinger Academic Resource Center, 4069 Wescoe Hall, has recorded materials in all the languages taught at KU and in many for which no course work is currently available.

KU offers semester and summer programs abroad led by KU faculty members.

CHIN 542 Introduction to Classical Chinese I (3). H/W Introduction to classical grammar through selected articles and intensive readings; exercises in basic reference works. Prerequisite: CHIN 208 or consent of instructor. LEC

CHIN 544 Introduction to Classical Chinese II (3). H/W A continuation of CHIN 542; readings from selected texts; detailed treatment of Chinese reference works. Prerequisite: CHIN 542. LEC

CHIN 562 Modern Chinese Literature I (3). NW H/W Readings and interpretation of varied modern Chinese texts. Continued study of the language in the form of oral discussion and written reports. Prerequisite: CHIN 504 or equivalent. LEC

CHIN 564 Modern Chinese Literature II (3). H/W A continuation of CHIN 562 with materials of increasing difficulty. Prerequisite: CHIN 562. LEC

CHIN 580 Introduction to Chinese Research Materials (1). U An introduction to basic reference works in Chinese and Western languages, including dictionaries, encyclopedias, concordances, and bibliographies. Library organization and research methods will also be discussed. (Five week course.) Prerequisite: CHIN 208 or equivalent. LEC

CHIN 598 Readings in: _____ (1-3). H/W Students will read selections from materials on a given topic or topics. May be repeated for credit. Prerequisite: CHIN 564 or permission of instructor. IND

CHIN 690 Seminar in Chinese Texts (1-3). H/W Varying topics with varying prerequisites. LEC

● East Asian Languages and Cultures Courses

EALC 105 Living Religions of the East (3). HR,NW H/W A basic introduction to religion in India, China, and Japan with emphasis upon religions that affect the modern period. Not open to students who have taken REL 108/EALC 108 or REL 306. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have had one of the courses may not take the other. (Same as REL 106.) LEC

EALC 108 Living Religions of the East, Honors (3). HR,NW H A basic introduction to religion in India, China, and Japan with emphasis upon religions that affect the modern period. Open only to students in the University Honors Program or by permission of instructor. Not open to students who have taken REL 106/EALC 105 or REL 306. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of the courses may not take the other. (Same as REL 108.) LEC

EALC 130 Myth, Legend, and Folk Belief in East Asia (3). NW H/W A survey of the commonly held ideas about the beginning of the world, the role of gods and spirits in daily life, and the celebrations and rituals proper to each season of the year. The purpose of the course is to present the world view of the ordinary peoples of East Asia in contrast to their more sophisticated systems of philosophy which are better known to the Western world. (Same as ANTH 293, HWC 130, and REL 130.) LEC

EALC 131 Myth, Legend, and Folk Belief in East Asia, Honors (3). NW H/W A survey of the commonly held ideas about the beginning of the world, the role of gods and spirits in daily life, and the celebrations and rituals proper to each season of the year. The purpose of the course is to present the world view of the ordinary peoples of East Asia in contrast to their more sophisticated systems of philosophy that are better known to the Western world. Open only to students in the University Honors Program or by permission of instructor. LEC

EALC 136 The Japanese Tradition (3). NW H/W An examination of the cultural heritage of Japan from earliest times to Meiji Restoration. Emphasis will be placed upon Japan's literary tradition. Not open to students with credit in EALC 512. LEC

EALC 198 Studies in: _____ (1-5). H Special purpose subject in East Asia and contiguous regions. LEC

EALC 220 Asian Autobiographies (3). NW H An introduction to modern Asia (19th-20th centuries) through the reading of autobiographies by men and women of China, Japan, Korea, Tibet, and Vietnam. Combination of lecture and discussion format. LEC

EALC 231 Introduction to: _____ (1-3). NW H/W Topics are various aspects of Chinese and Japanese cultures. LEC

EALC 298 Studies in: _____ (1-5). H Special purpose subject in East Asia and contiguous regions. LEC

EALC 306 Living Religions of the East (3). HR,NW H/W A more intensive treatment of the content of EALC 105/REL 106. Additional readings and a paper are required for the 300 level course. The course overlaps sufficiently that students who have taken one of the courses (EALC 105/EALC 306) may not take the other. Not open to students who have taken REL 106/EALC 105 or REL 108/EALC 108. (Same as REL 306.) LEC

EALC 310 The Chinese Novel (3). H/W Reading and analysis of the form and types of Chinese novel, its beginnings and development to the present day. LEC

EALC 312 Traditional Japanese Literature in Translation (3). H/W A survey of the major works of Japan's long literary heritage. Readings from such classics as the Tale of Genji, the world's first novel, No drama, and poetry will acquaint the student with one of the world's great literary traditions. (Not open to students with credit in EALC 712.) LEC

EALC 314 Traditional Chinese Literature in Translation (3). H/W A general survey of representative literary works of major genres in traditional China. Lectures, assigned readings, and discussions in English. A knowledge of Chinese is not required. (Not open to students with credit in EALC 714.) LEC

EALC 316 Modern Japanese Literature in Translation (3). H/W An introduction to the major authors of contemporary Japan. Students will read the works of such important writers as Natsume Soseki and the Nobel Prize winning Kawabata Yasunari. (Not open to students with credit in EALC 716.) LEC

EALC 318 Modern Chinese Literature in Translation (2-3). H/W A general survey of the important writers of the 20th century and their works. Lectures, readings, and discussions in English. A knowledge of Chinese is not required. (Not open to students with credit in EALC 718.) LEC

EALC 330 Chinese Culture (3). NW H/W An examination of Chinese culture from earliest times to the modern period. Emphasis will be placed upon China's literary tradition. LEC

EALC 331 Studies in: _____ (1-3). H/W Topics in the Chinese and Japanese cultures. LEC

EALC 332 Asian Literature in Translation: _____ (3). NW H/W Introduction to Asian culture and society through close reading and analysis of important works of Asian literature. Themes and issues to be focused upon will vary (e.g., traditional or modern literature of China, Japan, or Korea, and special topics of interest). Lecture and discussion format. Knowledge of Asian languages is not required. LEC

EALC 333 Asian Literature in Translation, Honors: _____ (3). NW H/W Introduction to Asian culture and society through close reading and analysis of important works of Asian literature. Themes and issues to be focused upon will vary (e.g., traditional or modern literature of China, Japan, or Korea, and special topics of interest). Lecture and discussion format. Knowledge of Asian languages is not required. Open only to students in the University Honors Program or by permission of instructor. LEC

EALC 340 Structure of Chinese (3). H A detailed study of the phonological and grammatical structure of Chinese and the interactions between language and culture. Depending on student interest, a unit on the pedagogy of teaching Chinese as a foreign language may also be included. Primarily for students who want a linguistic knowledge of the language rather than a practical command of it. Students taking the course at the 500 level will have more work required of them. LEC

EALC 350 Contemporary Japan (3). NW U An exploration of the Japanese way of life, self-concepts, and world view through lecture, discussion, reading, and field trips to businesses, community organizations, and cultural sites. Offered only during the Summer Institute in Hiratsuka, Japan. LEC

EALC 364 Peoples of Japan and Korea (3). NW S/W An analysis of the cultural diversity and unity of the peoples of Japan and Korea. Emphasis on historical and ethnological relationships, social structure, and ethics. (Same as ANTH 364.) LEC

EALC 365 Japanese People Through Film (3). NW S/W Japanese people's culture and society through an extensive examination of both documentary and feature films. Readings from social science fields and literature will be used—the former to supply a theoretical framework for the study of Japanese people and the latter to further the inquiry into the individual sentiment motivating actions. (Same as ANTH 365.) LEC

EALC 366 The Life Cycle in Japanese Culture and Literature (3). NW H/W A study of the Japanese people from birth to death: what it means to be born in a Japanese family, to grow up Japanese, and to die Japanese. Anthropological works and selections from Japanese literature and film will be used to examine ways in which Japanese people live through the critical periods in their life cycle. (Same as ANTH 366.) LEC

EALC 368 The Peoples of China (3). NW S/W An analysis of the cultural origin, diversity, and unity of the peoples of China. Emphasis on historical development, social structure, cultural continuity and change, and ethics. (Same as ANTH 368.) LEC

EALC 370 Chinese Folk Belief (3). H/W A survey of the beliefs of the ordinary Chinese people throughout the centuries with regard to myths, the other world, festivals, and the gods. Prerequisite: A course dealing with China. LEC

EALC 410 Asobi: Play in Japan (3). NW N/W Originally designating the songs and dances of early Shinto religious ritual, "asobi" (play) has been a significant force shaping Japanese culture over the centuries. This course examines the function and patterns of play found in Shinto, the court culture of the aristocrats, the values and practices of the medieval samurai, the popular culture of Edo townspeople, and the postmodern consumer society of Japan today. No language prerequisite. LEC

EALC 411 Asobi: Play in Japan, Honors (3). NW N/W Originally designating the songs and dances of early Shinto religious ritual, "asobi" (play) has been a significant force shaping Japanese culture over the centuries. This course examines the function and patterns of play found in Shinto, the court culture of the aristocrats, the values and practices of the medieval samurai, the popular culture of Edo townspeople, and the postmodern consumer society of Japan today. No language prerequisite. Prerequisite: Membership in the University Honors program or consent of instructor. LEC

EALC 420 Daily Life in China From the Opium War to the Present (3). NW H/W Daily life and issues of social and cultural interaction between China and Western nations from the Opium War to the present. Fiction, travel diary, historical sources, film, and personal accounts will make up course materials. LEC

EALC 431 Studies in: _____ (1-3). H/W Topics in the Chinese and Japanese traditions. LEC

EALC 488 Senior Seminar in East Asian Languages and Cultures (3). H/W Open to seniors majoring in East Asian Languages and Cultures or by consent of instructor. LEC

EALC 498 Directed Readings in East Asian Languages and Cultures (1-4). H/W Readings in English on an East Asian subject, selected by a student with the advice and direction of the instructor. Individual meetings and reports. Prerequisite: ECIV 104 or ECIV 304 and consent of instructor. IND

EALC 499 Honors Thesis (3). H/W Required of all students working for a degree with honors. May be repeated for a total of nine semester hours. IND

EALC 508 Religion in China (3). NW H/W Survey of religious thought and practice in China from the Shang to the People's Republic. (Same as REL 508.) LEC

EALC 509 Religion in Japan (3). NW H/W Survey of religious thought and practice in Japan from the Jomon period to the present. (Same as REL 509.) LEC

EALC 510 Education in Japan (3). NW N/W An investigation of the relationship between education and Japanese national and cultural identity as expressed in conceptions of childhood: philosophical and political positions underlying curricular and administrative policies, teachers' training, and pedagogical styles; the interface between education, "work," and the economy in general; and the theme of "internationalization," (kokusaika). The course is taught in English. LEC

EALC 520 Entrepreneurship in East Asia (3). NW H An intensive examination of the history and current status of entrepreneurship in China, Japan, and other nations in East Asia. This course investigates the role of entrepreneurs in Asian economic development from the nineteenth century to the present, as well as the relation between entrepreneurship and Asian cultural traditions. The opportunities and challenges of entrepreneurship in East Asia today are also considered. (Same as HIST 640.) LEC

EALC 527 Asian Theatre and Film (3). NW H/W A survey of traditional and modern theatre and film in Asia, with greatest attention given to India, China, and Japan. A study of plays, dramatic genres, history, conventions of play production, and acting styles and films. (Same as TH&F 527.) LEC

EALC 530 Chinese Culture (3). NW H/W An examination of Chinese culture from earliest times to the modern period. Emphasis will be placed upon China's literary tradition. LEC

EALC 536 Cultural Traditions of Japan (3). NW H/W An examination of the major intellectual and aesthetic trends in Japanese history. The course is designed to give teachers and professionals, as well as students with a general interest in Japan, an overview of its unique cultural tradition. Not open to students with credit in EALC 136. LEC

EALC 563 Cultural History of Korea (3). H This course examines the cultural history of Korea in periods prior to the 19th Century. Special attention is given to varying constructions of cultural value, heritage, and identity, together with the historically specific factors that engendered them. (Same as HIST 590.) LEC

EALC 565 Popular Images in Japanese Culture, Literatures, and Films (3). NW S/W The course examines recurring themes and images in Japanese culture through films, literary works, and anthropological and other social science literature. These themes and images are studied in the contexts of both modern and traditional cultures. Although the popular deviates from the orthodox, nevertheless, the energy and pervasiveness of these offspring enforce and sustain "proper" cultural values. As a result of exploration of both highways and backroads of cultural expression, a holistic picture of Japanese ethos will emerge. (Same as ANTH 565.) LEC

EALC 567 Japanese Ghosts and Demons (3). NW S/W An investigation of deeply rooted Japanese beliefs about intimate relationships among humans, animals, and nature - beliefs which help to explain the mysterious and to lend order to the world. Anthropological works, selections from Japanese literature, historical documents, artworks, and films will be used to examine supernatural themes. (Same as ANTH 567.) LEC

EALC 570 The Structure of Japanese (3). H A detailed study of the phonological and grammatical structure of Japanese and the use of the language in social/cultural contexts. Primarily for students who want a linguistic knowledge of the language rather than a practical command of it. (Same as LING 570.) LEC

EALC 572 Structure of Chinese (3). H A detailed study of the phonological and grammatical structure of Chinese and the interactions between language and culture. Depending on student interests, a unit on the pedagogy of teaching Chinese as a foreign language may also be included. Primarily for students who want a linguistic knowledge of the language rather than a practical command of it. (Same as LING 572.) LEC

EALC 575 Love, Sexuality, and Gender in Japanese Literature (3). H An examination of Japanese attitudes toward love, sexuality, and gender differences as revealed in literature from the tenth century to the present. Discussion format. LEC

EALC 583 Imperial China (3). NW H/W An intensive survey of China's traditional civilization and its history, with emphasis on the last centuries of imperial rule under the Sung, Yuan, Ming, and Ch'ing dynasties (to 1850). (Same as HIST 583.) LEC

EALC 584 Modern China (3). NW H/W An intensive survey of China's history from the early 19th century to the present. Key topics include the decline of the traditional system, the rise of communism, the Maoist era, and the tensions of change and control in the 1980s and 1990s. (Same as HIST 584.) LEC

EALC 585 Reform in Contemporary China (3). NW H/W This course will examine the epochal changes that have occurred in China from Deng Xiaoping's rise to power in 1978 to present. It will include a focus on the historical background of the revolutionary period before examining the political and economic changes that spawned the 1989 "prodemocracy" movement at Tiananmen. The course will conclude with an analysis of the events of the 1990s focusing on U.S.-China political and economic relations and the destabilizing effects of inflation, infrastructural reform, political and economic decentralization, and leadership succession. A previous course on China is helpful, but not mandatory. (Same as HIST 585 and POLS 668.) LEC

EALC 586 Ancient and Medieval Japan (3). NW H/W This course offers an overview of the political narrative and an introduction to the major cultural, religious, and social trends from the prehistoric era up through the Warring states period (sixteenth century). Specific topics addressed include the history of women, popular belief, pariah groups, and the performing arts. (Same as HIST 586.) LEC

EALC 587 Early Modern Japan (3). NW H/W Early modern Japan (16th to 19th century) examines the history, culture, and patterns of life during an era of rigid social control but artistic brilliance. After an historical overview of the period, students will explore topics including the social structure, travel, religion, thought, and the formation of traditional cultural forms such as Kabuki theatre. (Same as HIST 587.) LEC

EALC 588 Japan, 1853-1945 (3). NW H/W This course provides an intensive survey of Japanese history from the arrival of Commodore Perry through the Pacific War. Social, economic, and political themes will be emphasized. Among the topics covered will be the Meiji Restoration, industrialization, Japanese imperialism, Taisho democracy, and wartime mobilization. (Same as HIST 588.) LEC

EALC 589 Japan Since 1945 (3). NW H/W This course provides an overview of Japanese history from the end of World War II to the present day. Among the topics covered will be the Allied Occupation, post-war politics and social change, the economic "miracle," popular culture, women and the family, crime and punishment, the educational system, and Japan's place in the world. (Same as HIST 589.) LEC

EALC 590 Topics in East Asian Languages and Cultures: _____ (1-9). H/W Specific topical courses will be offered every year covering a number of disciplines. Credit, description, and prerequisites will vary. Note: May be repeated for credit up to the stated limit. LEC

EALC 591 Topics in East Asian Languages and Cultures: _____ (1-9). S/W Specific topical courses will be offered every year covering a number of disciplines. Credit, descriptions, and prerequisites will vary. Note: May be repeated for credit up to the stated limit. LEC

EALC 592 Huns, Turks, and Mongols: The Nomad Factor in History (3). NW H/W A survey of the history and the institutions of the Eurasian steppes, and an examination of the varying impact of the steppe tribes upon the civilizations of China, India, Persia, Islam, and the West. (Same as HIST 592.) LEC

EALC 593 Modern Korea (3). NW H/W This course will examine selected topics in Modern Korean history in the 19th and 20th centuries, with special emphasis on Korea's connections to China and Japan. (Same as HIST 593.) Prerequisite: A college-level course in East Asian history or culture, or consent of instructor. LEC

EALC 594 Law and Society in Traditional China (3). H/W The course begins with a series of lectures on the main principles underlying Chinese social structure. The course then examines the application of those principles in legal cases. Students read legal cases in translation and argue them in class. (Same as HIST 594.) Prerequisite: A course in Chinese history. LEC

EALC 595 Business and Industry in Japan (3). NW H/W An introduction to the economic and business history of Japan from the 19th century to the present day. Topics discussed will include the evolution of industrial policy, labor relations, production management practices, trade frictions with the United States, and the applicability of the Japanese model to other economies today. (Same as HIST 595.) LEC

EALC 596 Defining Japan: Marginalized Groups and the Construction of National Identity (3). NW H/W This course investigates the construction of national identity in modern Japan by examining the historical experiences of groups marginalized by mainstream society. We will explore the pressures of conformity, the pervasiveness of social ostracism and the surprising diversity in Japanese society. Among the groups discussed will be indigenous peoples (the Ainu, Okinawans),

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the Korean minority, the outcast class (burakumin), the sick and disabled, the Yakuza, and political activists. (Same as HIST 596.) LEC

EALC 597 Japanese Theatre History (3). NW H/W This course examines the historical development and characteristics of Japanese theatre, with special attention to traditional theatre and the genres of noh, kyogen, and kabuki in particular, tracing their origins in the pre-modern era and their continued performance today. To gain an understanding of the historical and artistic setting of these arts, lectures and readings will consider broader issues such as performance and ritual in religion and daily life, gender and representation, and folk theatre. A portion of this class will include practical studies of theatrical forms including noh dance and kabuki music (shamisen). (Same as HIST 597.) LEC

EALC 598 History and Structure of the Japanese Language (3). H/W The historical development of Japanese. Study of Japanese phonology, morphology and syntax, using the techniques of descriptive linguistics and generative grammar. Prerequisite: An introductory course in linguistics or one year of Japanese. LEC

EALC 600 Biography of a City: _____ (3). H/W This interdisciplinary, team-taught course surveys the artistic, intellectual, and historical development of some of the great cities of the world, such as Kyoto or Tokyo. LEC

EALC 620 Daily Life in China from the Opium War to the Present (3). NW H/W Daily life and issues of social and cultural interaction between China and Western nations from the Opium War to the present. Fiction, travel diary, historical sources, film, and personal accounts will make up course materials. LEC

EALC 636 Women in Japanese Literature (3). H/W An examination of women as subjects, readers, and writers of Japanese literature. Topics may include images and stereotypes of women in Japanese literature; feminist readings of this literature; female culture; and the psychodynamics of female creativity. LEC

EALC 642 Chinese Thought (3). NW H/W A survey of the principal modes of Chinese thought from their origins through the imperial period. Not open to students with credit in EALC 132. (Same as HWC 524 and PHIL 506.) Prerequisite: Eastern civilizations course or a course in Asian history or a distribution course in philosophy. LEC

EALC 646 Chinese Law (3). H/W The history and development of civil and criminal law in China from its beginnings until the present. The course will be taught both by lectures and by discussion of cases. A section of the course will concern modern Chinese law. Prerequisite: A course on China, or general background in law or business. LEC

EALC 649 Doing Business With China: Law and Policy (3). NW H/W A study of the issues involved in doing business with China. The current Chinese political and economic context will be examined, followed by a study of the Chinese legal system and Chinese economic law and regulation. Relevant U.S. law will also be considered. Prerequisite: A course on China, or general background in law or business. LEC

EALC 656 Government and Politics of East Asia (3). NW S/W A comparative examination of the contemporary political institutions, processes and ideas of China, Japan, and Korea. (Same as POLS 656.) Prerequisite: A distribution course in political science or a course in East Asian studies. LEC

EALC 666 Political Economy of East Asia (3). S This course provides basic understanding of fiscal, monetarist, and trade policies; how governments in East Asia use them to pursue growth; the extent to which these governments follow or controvert economics to pursue growth; and how the performances of economies in East Asia relate to the US and global economies. (Same as POLS 666.) Prerequisite: POLS 150. LEC

EALC 676 International Relations of Asia (3). S/W An intensive study of the problems of ideological conflict, diplomatic relations, strategic arrangements, economic cooperation, and cultural exchange in East and Southeast Asia with special emphasis upon the roles of major world powers. (Same as POLS 676.) Prerequisite: POLS 170 or a course in East Asian studies. LEC

EALC 678 Chinese Foreign Policy (3). S/W In-depth examination of China's changing policies toward other countries with special emphasis on policy-making process, negotiating behavior, military strategy, economic relations, and cultural diplomacy. (Same as POLS 678.) LEC

EALC 700 Introduction to East Asian Studies (1).

EALC 710 Styles of Acting: Classical Japanese (3).

EALC 712 Readings in Traditional Japanese Literature (3).

EALC 714 Readings in Traditional Chinese Literature (3).

EALC 716 Readings in Modern Japanese Literature (3).

EALC 718 Readings in Modern Chinese Literature (2-3).

EALC 732 Seminar in Eastern Religious Thought: _____ (3).

EALC 733 Seminar in Eastern Religious Texts: _____ (3).

EALC 747 Teaching About East Asia (2).

EALC 762 Readings in Japanese Religion (3).

EALC 766 Japanese People: Their Culture and Literature (3).

EALC 776 Seminar in Religion and Society in Asia: _____ (3).

EALC 790 Topics in East Asian Languages and Cultures: _____ (1-3).

● Eastern Civilizations Courses

ECIV 104 Eastern Civilizations (3). HL,NW H/W An introductory course designed to acquaint the student with the broad outlines of the traditional cultures and literatures of India, China, and Japan. By reading translations of original source materials, the student will be able to see the interaction between these three cultures as well as their essential continuity. The course is most appropriate for students without any background in Asian culture. LEC

ECIV 105 Eastern Civilizations Honors (3). HL,NW H/W An introductory course designed to acquaint the student with the broad outlines of the traditional cultures and literature of India, China, and Japan. By reading translations of original source material, the student will be able to see the interaction between these three cultures as well as their essential continuity. The course is most appropriate for students without any background in Asian culture. Offered for students with superior academic records. LEC

ECIV 304 Eastern Civilizations (3). HL,NW H/W An introductory course designed to acquaint the student with the broad outlines of the traditional cultures and literature of India, China, and Japan. By reading translations of original source material, the student will be able to see the interaction between these three cultures as well as their essential continuity. The course is most appropriate for students without any background in Asian culture. Same as ECIV 104, but there will be some additional work appropriate to a 300-level course. LEC

ECIV 305 Eastern Civilizations Honors (3). HL,NW H/W An honors section. An introductory course designed to acquaint the student with the broad outlines of the traditional cultures and literatures of India, China, and Japan. By reading translations of original source materials, the student will be able to see the interaction between these three cultures as well as their essential continuity. The course is most appropriate for students without any background in Asian culture. Same as ECIV 105, but there will be some additional work appropriate to a 300-level course. Offered for students with superior academic records. LEC

● Japanese Courses

JPN 100 Beginning Japanese I (3). U An introduction to Japanese for students enrolling in the Summer Study Abroad Program. Familiarity with the basic structural patterns of the language is stressed through general conversation. The hiragana and katakana syllabaries are introduced. LEC

JPN 101 Beginning Japanese II (3). U Continuation of JPN 100. Available to students who took JPN 100 as part of the Summer Study Abroad Program. Not available for credit for students who have previously completed JPN 104. Prerequisite: JPN 100 or equivalent. LEC

JPN 104 Elementary Japanese I (5). U Three hours of lecture, three hours of drill per week. Acquisition of basic language skills (listening, speaking, reading, writing). Not available for credit for students who have previously completed JPN 101. LEC

JPN 108 Elementary Japanese II (5). U Continuation of JPN 104. Prerequisite: JPN 101, JPN 104, or equivalent. LEC

JPN 204 Intermediate Japanese I (5). U Three hours of lecture, three hours of drill. Prerequisite: JPN 108 or equivalent. LEC

JPN 206 Intermediate Japanese Conversation (2-4). U Enhancement of conversational ability at the intermediate level. Used primarily to accommodate transfer credits. Prerequisite: JPN 204 or equivalent. LEC

JPN 208 Intermediate Japanese II (5). U Continuation of JPN 204. Prerequisite: JPN 204. LEC

JPN 226 Japanese in Context: Intermediate (3). U Supervised and individualized study and practice of language skills through direct experience in interviews and guided practical applications in various public settings in Japan. Some conventional classroom instruction in grammar included. Offered only during the Summer Institute in Hiratsuka, Japan. Prerequisite: Two semesters or the equivalent of Japanese language study. LEC

JPN 306 Advanced Japanese Conversation I (2). H/W Intensive practice of communicative skills at the advanced level. Prerequisite: JPN 208 or equivalent. LEC

JPN 310 Advanced Japanese Conversation II (2). H/W Continuation of JPN 306. LEC

JPN 326 Japanese in Context: Advanced (3). U Supervised and individualized study and practice of language skills through direct experience in interviews and guided practical applications in various public settings in Japan. Some conventional classroom instruction in grammar and usage. Offered only during the Summer Institute in Hiratsuka, Japan. Prerequisite: Four semesters or the equivalent of Japanese language study. LEC

JPN 386 Advanced Japanese Conversation (2). U This course provides an opportunity to foster conversational ability at the advanced level, as a supplement to regular courses. Prerequisite: JPN 504 or equivalent. LEC

JPN 498 Directed Readings in Japanese (1-4). H/W Readings in Japanese on a subject selected by a student with the advice and direction of the instructor. Individual meetings and reports. Prerequisite: Consent of instructor. IND

JPN 504 Advanced Modern Japanese I (3). H/W Readings in selected modern Japanese texts on various topics: history, education, language, society, business, and literature. Meets three hours per week. Prerequisite: JPN 208 or equivalent. LEC

JPN 508 Advanced Modern Japanese II (3). H/W Continuation of JPN 504. Prerequisite: JPN 504 or equivalent. LEC

JPN 509 Business Japanese (3). U Study of Japanese language especially appropriate to business situations. Although the course emphasizes developing conversational ability, the primary focus is on strengthening reading and writing in the specialized area. The course includes discussion of non-verbal aspects of Japanese business practices as well. Prerequisite: The first semester of third-year Japanese or the equivalent. LEC

JPN 542 Introduction to Classical Japanese I (3). H/W Introductory grammar and readings in classical Japanese texts. Prerequisite: JPN 508. LEC

JPN 544 Introduction to Classical Japanese II (3). H Continued readings of classical Japanese texts, on the intermediate and advanced level. Introduction to the elements of *kambun* (Sino-Japanese) and *sorobun* (epistolary) styles. Prerequisite: JPN 542 or equivalent. LEC

JPN 562 Modern Japanese Texts I (3). H/W Readings and interpretation of modern Japanese texts from various fields. Continued study of the language in the form of oral discussion and written reports. Prerequisite: JPN 508. LEC

JPN 564 Modern Japanese Texts II (3). H/W A continuation of JPN 562. Prerequisite: JPN 562 or equivalent. LEC

JPN 569 Advanced Business Japanese (3). U This course strengthens reading and writing skills and continues developing conversational ability. It assumes a higher level of competency in Japanese than JPN 509 and includes both verbal and non-verbal aspects of Japanese business practices. Prerequisite: Completion of third-year Japanese or equivalent. LEC

JPN 598 Readings in: _____ (1-3). H/W Students will read selections from materials on a given topic or topics. May be repeated for credit. Prerequisite: JPN 564 or permission of instructor. IND

JPN 690 Seminar in: _____ (1-3). H/W Varying topics with varying prerequisites. LEC

● Korean Courses

KOR 104 Elementary Korean I (5). U Five hours of class and two hours of drill in the spoken language each week. Grammar and readings in selected texts. LEC

KOR 108 Elementary Korean II (5). U Continuation of KOR 104. Prerequisite: KOR 104. LEC

KOR 204 Intermediate Korean I (5). U Five hours of class and two hours of spoken drill. Readings in selected texts in modern Korean. Prerequisite: KOR 108 or equivalent. LEC

KOR 208 Intermediate Korean II (5). U Continuation of KOR 204. Prerequisite: KOR 204. LEC

KOR 498 Directed Readings in Korean (1-4). H/W Readings in Korean on a subject selected by a student with the advice and direction of the instructor. Individual meetings and reports. Prerequisite: Consent of instructor. IND

KOR 504 Advanced Modern Korean I (5). H/W Five hours of class and two of drill. Readings in selected modern Korean texts on various topics: history, literature, society, and language. Prerequisite: KOR 208 or equivalent. LEC

KOR 508 Advanced Modern Korean II (5). H/W Continuation of KOR 504. Prerequisite: KOR 504 or equivalent. LEC

● Uyghur Courses

UYGR 104 Elementary Uyghur I (5). U Uyghur is an important Central Asian Turkic language spoken by nine million people in China. The first semester is designed to give the student basic communicative competency, including pronunciation and intonation, structure, and syntax. Effective oral and written communication are stressed. LEC

UYGR 108 Elementary Uyghur II (5). U Uyghur is an important Central Asian Turkic language spoken by nine million people in China. The second semester continues building on basic communicative competency, expanding communicative domains, vocabulary, and structural range. Effective oral and written communication are stressed. Prerequisite: UYGR 104. LEC

Ecology and Evolutionary Biology

Students may concentrate in ecology and evolutionary biology by seeking a B.S. in biology. See Biological Sciences.

Economics

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Course work in economics is offered for students who want to acquire insight into the basic relationships of the modern economy, for students who plan to teach social sciences in secondary schools, for students planning to enter the School of Business, and for students majoring in economics either as a goal in itself or as preparation for graduate work.

Courses for Nonmajors

ECON 104 is recommended for students who want only an introductory course. Students planning to teach social sciences should consult the School of Education chapter of this catalog. Students who plan to enter the School of Business in the junior year should consult the School of Business chapter. Students who plan to enter the School of Journalism should see School of Journalism and Mass Communications.

Majors

First- and Second-year Preparation. Students considering an economics major should enroll in ECON 142/ECON 143 Principles of Microeconomics or ECON 144/ECON 145 Principles of Macroeconomics no later than the sophomore year. For the B.A. or B.G.S., a statistics course in the mathematics department fulfills the statistics requirement for the economics major and the second mathematics course requirement. For the B.S., students should complete ECON 520 (or ECON 524) and MATH 122 by the end of the sophomore year.

Requirements for the B.A. or B.G.S. Major. A total of 27 or 28 hours in economics and 3 or 4 hours in statistics is required. Economics courses must include

ECON 142/ECON 143 Principles of Microeconomics	3
ECON 144/ECON 145 Principles of Macroeconomics	3
ECON 520/ECON 521 Microeconomics (3) or	
ECON 524/ECON 525 Managerial Economics (4)	3-4
ECON 522/ECON 523 Macroeconomics	3
Five additional courses in economics	15

The statistics course requirement may be fulfilled by taking MATH 365 or DSCI 301 or MATH 526.

At least three of the required elective courses must be taken from the KU Department of Economics. ECON 310, ECON 496, or ECON 497 does not satisfy this elective course requirement.

ECON 140, a previously offered 4-hour introduction to microeconomics and macroeconomics, can be substituted for ECON 142 and ECON 144.

Requirements for the B.S. Degree. A total of 124 credit hours is required, as follows:

General Education Requirements (55-57 hours)

English: same as Bachelor of Arts degree requirements; see College of Liberal Arts and Sciences: General Requirements ...	9
Western civilization	6
Mathematics: completion of MATH 115, MATH 116, and MATH 122; or MATH 121 and MATH 122	10-11
Statistics: MATH 526 or DSCI 301	3-4
Principal Course Distribution Requirements: same as Bachelor of Arts degree requirements; see College of Liberal Arts and Sciences: General Requirements	27

Non-economics Electives. At least three courses at the 300 level or above.

Junior/Senior Credit Hours. Forty-five hours at the 300 level or above.

Economics Requirements (36 or 37 hours)

<i>Economics Core Courses</i> (18 or 19 hours). These courses are required:	
ECON 142/ECON 143 Principles of Microeconomics	3
ECON 144/ECON 145 Principles of Macroeconomics	3
ECON 520/ECON 521 Microeconomics (3) or	
ECON 524/ECON 525 Managerial Economics (4)	3-4

The Eermal Gar-inger Academic Resource Center, 4069 Wescoe Hall, has recorded materials in all the languages taught at KU and in many for which no course work is currently available.

KU offers semester and summer programs abroad led by KU faculty members.

CHIN 542 Introduction to Classical Chinese I (3). H/W Introduction to classical grammar through selected articles and intensive readings; exercises in basic reference works. Prerequisite: CHIN 208 or consent of instructor. LEC

CHIN 544 Introduction to Classical Chinese II (3). H/W A continuation of CHIN 542; readings from selected texts; detailed treatment of Chinese reference works. Prerequisite: CHIN 542. LEC

CHIN 562 Modern Chinese Literature I (3). NW H/W Readings and interpretation of varied modern Chinese texts. Continued study of the language in the form of oral discussion and written reports. Prerequisite: CHIN 504 or equivalent. LEC

CHIN 564 Modern Chinese Literature II (3). H/W A continuation of CHIN 562 with materials of increasing difficulty. Prerequisite: CHIN 562. LEC

CHIN 580 Introduction to Chinese Research Materials (1). U An introduction to basic reference works in Chinese and Western languages, including dictionaries, encyclopedias, concordances, and bibliographies. Library organization and research methods will also be discussed. (Five week course.) Prerequisite: CHIN 208 or equivalent. LEC

CHIN 598 Readings in: _____ (1-3). H/W Students will read selections from materials on a given topic or topics. May be repeated for credit. Prerequisite: CHIN 564 or permission of instructor. IND

CHIN 690 Seminar in Chinese Texts (1-3). H/W Varying topics with varying prerequisites. LEC

● East Asian Languages and Cultures Courses

EALC 105 Living Religions of the East (3). HR,NW H/W A basic introduction to religion in India, China, and Japan with emphasis upon religions that affect the modern period. Not open to students who have taken REL 108/EALC 108 or REL 306. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have had one of the courses may not take the other. (Same as REL 106.) LEC

EALC 108 Living Religions of the East, Honors (3). HR,NW H/A basic introduction to religion in India, China, and Japan with emphasis upon religions that affect the modern period. Open only to students in the University Honors Program or by permission of instructor. Not open to students who have taken REL 106/EALC 105 or REL 306. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of the courses may not take the other. (Same as REL 108.) LEC

EALC 130 Myth, Legend, and Folk Belief in East Asia (3). NW H/W A survey of the commonly held ideas about the beginning of the world, the role of gods and spirits in daily life, and the celebrations and rituals proper to each season of the year. The purpose of the course is to present the world view of the ordinary peoples of East Asia in contrast to their more sophisticated systems of philosophy which are better known to the Western world. (Same as ANTH 293, HWC 130, and REL 130.) LEC

EALC 131 Myth, Legend, and Folk Belief in East Asia, Honors (3). NW H/W A survey of the commonly held ideas about the beginning of the world, the role of gods and spirits in daily life, and the celebrations and rituals proper to each season of the year. The purpose of the course is to present the world view of the ordinary peoples of East Asia in contrast to their more sophisticated systems of philosophy that are better known to the Western world. Open only to students in the University Honors Program or by permission of instructor. LEC

EALC 136 The Japanese Tradition (3). NW H/W An examination of the cultural heritage of Japan from earliest times to Meiji Restoration. Emphasis will be placed upon Japan's literary tradition. Not open to students with credit in EALC 512. LEC

EALC 198 Studies in: _____ (1-5). H Special purpose subject in East Asia and contiguous regions. LEC

EALC 220 Asian Autobiographies (3). NW H An introduction to modern Asia (19th-20th centuries) through the reading of autobiographies by men and women of China, Japan, Korea, Tibet, and Vietnam. Combination of lecture and discussion format. LEC

EALC 231 Introduction to: _____ (1-3). NW H/W Topics are various aspects of Chinese and Japanese cultures. LEC

EALC 298 Studies in: _____ (1-5). H Special purpose subject in East Asia and contiguous regions. LEC

EALC 306 Living Religions of the East (3). HR,NW H/W A more intensive treatment of the content of EALC 105/REL 106. Additional readings and a paper are required for the 300 level course. The course overlaps sufficiently that students who have taken one of the courses (EALC 105/EALC 306) may not take the other. Not open to students who have taken REL 106/EALC 105 or REL 108/EALC 108. (Same as REL 306.) LEC

EALC 310 The Chinese Novel (3). H/W Reading and analysis of the form and types of Chinese novel, its beginnings and development to the present day. LEC

EALC 312 Traditional Japanese Literature in Translation (3). H/W A survey of the major works of Japan's long literary heritage. Readings from such classics as the Tale of Genji, the world's first novel, No drama, and poetry will acquaint the student with one of the world's great literary traditions. (Not open to students with credit in EALC 712.) LEC

EALC 314 Traditional Chinese Literature in Translation (3). H/W A general survey of representative literary works of major genres in traditional China. Lectures, assigned readings, and discussions in English. A knowledge of Chinese is not required. (Not open to students with credit in EALC 714.) LEC

EALC 316 Modern Japanese Literature in Translation (3). H/W An introduction to the major authors of contemporary Japan. Students will read the works of such important writers as Natsume Soseki and the Nobel Prize winning Kawabata Yasunari. (Not open to students with credit in EALC 716.) LEC

EALC 318 Modern Chinese Literature in Translation (2-3). H/W A general survey of the important writers of the 20th century and their works. Lectures, readings, and discussions in English. A knowledge of Chinese is not required. (Not open to students with credit in EALC 718.) LEC

EALC 330 Chinese Culture (3). NW H/W An examination of Chinese culture from earliest times to the modern period. Emphasis will be placed upon China's literary tradition. LEC

EALC 331 Studies in: _____ (1-3). H/W Topics in the Chinese and Japanese cultures. LEC

EALC 332 Asian Literature in Translation: _____ (3). NW H/W Introduction to Asian culture and society through close reading and analysis of important works of Asian literature. Themes and issues to be focused upon will vary (e.g., traditional or modern literature of China, Japan, or Korea, and special topics of interest). Lecture and discussion format. Knowledge of Asian languages is not required. LEC

EALC 333 Asian Literature in Translation, Honors: _____ (3). NW H/W Introduction to Asian culture and society through close reading and analysis of important works of Asian literature. Themes and issues to be focused upon will vary (e.g., traditional or modern literature of China, Japan, or Korea, and special topics of interest). Lecture and discussion format. Knowledge of Asian languages is not required. Open only to students in the University Honors Program or by permission of instructor. LEC

EALC 340 Structure of Chinese (3). H A detailed study of the phonological and grammatical structure of Chinese and the interactions between language and culture. Depending on student interest, a unit on the pedagogy of teaching Chinese as a foreign language may also be included. Primarily for students who want a linguistic knowledge of the language rather than a practical command of it. Students taking the course at the 500 level will have more work required of them. LEC

EALC 350 Contemporary Japan (3). NW U An exploration of the Japanese way of life, self-concepts, and world view through lecture, discussion, reading, and field trips to businesses, community organizations, and cultural sites. Offered only during the Summer Institute in Hiratsuka, Japan. LEC

EALC 364 Peoples of Japan and Korea (3). NW S/W An analysis of the cultural diversity and unity of the peoples of Japan and Korea. Emphasis on historical and ethnological relationships, social structure, and ethics. (Same as ANTH 364.) LEC

EALC 365 Japanese People Through Film (3). NW S/W Japanese people's culture and society through an extensive examination of both documentary and feature films. Readings from social science fields and literature will be used—the former to supply a theoretical framework for the study of Japanese people and the latter to further the inquiry into the individual sentiment motivating actions. (Same as ANTH 365.) LEC

EALC 366 The Life Cycle in Japanese Culture and Literature (3). NW H/W A study of the Japanese people from birth to death: what it means to be born in a Japanese family, to grow up Japanese, and to die Japanese. Anthropological works and selections from Japanese literature and film will be used to examine ways in which Japanese people live through the critical periods in their life cycle. (Same as ANTH 366.) LEC

EALC 368 The Peoples of China (3). NW S/W An analysis of the cultural origin, diversity, and unity of the peoples of China. Emphasis on historical development, social structure, cultural continuity and change, and ethics. (Same as ANTH 368.) LEC

EALC 370 Chinese Folk Belief (3). H/W A survey of the beliefs of the ordinary Chinese people throughout the centuries with regard to myths, the other world, festivals, and the gods. Prerequisite: A course dealing with China. LEC

EALC 410 Asobi: Play in Japan (3). NW N/W Originally designating the songs and dances of early Shinto religious ritual, "asobi" (play) has been a significant force shaping Japanese culture over the centuries. This course examines the function and patterns of play found in Shinto, the court culture of the aristocrats, the values and practices of the medieval samurai, the popular culture of Edo townspeople, and the postmodern consumer society of Japan today. No language prerequisite. LEC

EALC 411 Asobi: Play in Japan, Honors (3). NW N/W Originally designating the songs and dances of early Shinto religious ritual, "asobi" (play) has been a significant force shaping Japanese culture over the centuries. This course examines the function and patterns of play found in Shinto, the court culture of the aristocrats, the values and practices of the medieval samurai, the popular culture of Edo townspeople, and the postmodern consumer society of Japan today. No language prerequisite. Prerequisite: Membership in the University Honors program or consent of instructor. LEC

EALC 420 Daily Life in China From the Opium War to the Present (3). NW H/W Daily life and issues of social and cultural interaction between China and Western nations from the Opium War to the present. Fiction, travel diary, historical sources, film, and personal accounts will make up course materials. LEC

EALC 431 Studies in: _____ (1-3). H/W Topics in the Chinese and Japanese traditions. LEC

EALC 488 Senior Seminar in East Asian Languages and Cultures (3). H/W Open to seniors majoring in East Asian Languages and Cultures or by consent of instructor. LEC

EALC 498 Directed Readings in East Asian Languages and Cultures (1-4). H/W Readings in English on an East Asian subject, selected by a student with the advice and direction of the instructor. Individual meetings and reports. Prerequisite: ECIV 104 or ECIV 304 and consent of instructor. IND

EALC 499 Honors Thesis (3). H/W Required of all students working for a degree with honors. May be repeated for a total of nine semester hours. IND

EALC 508 Religion in China (3). NW H/W Survey of religious thought and practice in China from the Shang to the People's Republic. (Same as REL 508.) LEC

EALC 509 Religion in Japan (3). NW H/W Survey of religious thought and practice in Japan from the Jomon period to the present. (Same as REL 509.) LEC

EALC 510 Education in Japan (3). NW N/W An investigation of the relationship between education and Japanese national and cultural identity as expressed in conceptions of childhood: philosophical and political positions underlying curricular and administrative policies, teachers' training, and pedagogical styles; the interface between education, "work," and the economy in general; and the theme of "internationalization," (kokusaika). The course is taught in English. LEC

EALC 520 Entrepreneurship in East Asia (3). NW H An intensive examination of the history and current status of entrepreneurship in China, Japan, and other nations in East Asia. This course investigates the role of entrepreneurs in Asian economic development from the nineteenth century to the present, as well as the relation between entrepreneurship and Asian cultural traditions. The opportunities and challenges of entrepreneurship in East Asia today are also considered. (Same as HIST 640.) LEC

EALC 527 Asian Theatre and Film (3). NW H/W A survey of traditional and modern theatre and film in Asia, with greatest attention given to India, China, and Japan. A study of plays, dramatic genres, history, conventions of play production, and acting styles and films. (Same as TH&F 527.) LEC

EALC 530 Chinese Culture (3). NW H/W An examination of Chinese culture from earliest times to the modern period. Emphasis will be placed upon China's literary tradition. LEC

EALC 536 Cultural Traditions of Japan (3). NW H/W An examination of the major intellectual and aesthetic trends in Japanese history. The course is designed to give teachers and professionals, as well as students with a general interest in Japan, an overview of its unique cultural tradition. Not open to students with credit in EALC 136. LEC

EALC 563 Cultural History of Korea (3). H This course examines the cultural history of Korea in periods prior to the 19th Century. Special attention is given to varying constructions of cultural value, heritage, and identity, together with the historically specific factors that engendered them. (Same as HIST 590.) LEC

EALC 565 Popular Images in Japanese Culture, Literatures, and Films (3). NW S/W The course examines recurring themes and images in Japanese culture through films, literary works, and anthropological and other social science literature. These themes and images are studied in the contexts of both modern and traditional cultures. Although the popular deviates from the orthodox, nevertheless, the energy and pervasiveness of these offspring enforce and sustain "proper" cultural values. As a result of exploration of both highways and backroads of cultural expression, a holistic picture of Japanese ethos will emerge. (Same as ANTH 565.) LEC

EALC 567 Japanese Ghosts and Demons (3). NW S/W An investigation of deeply rooted Japanese beliefs about intimate relationships among humans, animals, and nature - beliefs which help to explain the mysterious and to lend order to the world. Anthropological works, selections from Japanese literature, historical documents, artworks, and films will be used to examine supernatural themes. (Same as ANTH 567.) LEC

EALC 570 The Structure of Japanese (3). H A detailed study of the phonological and grammatical structure of Japanese and the use of the language in social/cultural contexts. Primarily for students who want a linguistic knowledge of the language rather than a practical command of it. (Same as LING 570.) LEC

EALC 572 Structure of Chinese (3). H A detailed study of the phonological and grammatical structure of Chinese and the interactions between language and culture. Depending on student interests, a unit on the pedagogy of teaching Chinese as a foreign language may also be included. Primarily for students who want a linguistic knowledge of the language rather than a practical command of it. (Same as LING 572.) LEC

EALC 575 Love, Sexuality, and Gender in Japanese Literature (3). H An examination of Japanese attitudes toward love, sexuality, and gender differences as revealed in literature from the tenth century to the present. Discussion format. LEC

EALC 583 Imperial China (3). NW H/W An intensive survey of China's traditional civilization and its history, with emphasis on the last centuries of imperial rule under the Sung, Yuan, Ming, and Ch'ing dynasties (to 1850). (Same as HIST 583.) LEC

EALC 584 Modern China (3). NW H/W An intensive survey of China's history from the early 19th century to the present. Key topics include the decline of the traditional system, the rise of communism, the Maoist era, and the tensions of change and control in the 1980s and 1990s. (Same as HIST 584.) LEC

EALC 585 Reform in Contemporary China (3). NW H/W This course will examine the epochal changes that have occurred in China from Deng Xiaoping's rise to power in 1978 to present. It will include a focus on the historical background of the revolutionary period before examining the political and economic changes that spawned the 1989 "prodemocracy" movement at Tiananmen. The course will conclude with an analysis of the events of the 1990s focusing on U.S.-China political and economic relations and the destabilizing effects of inflation, infrastructural reform, political and economic decentralization, and leadership succession. A previous course on China is helpful, but not mandatory. (Same as HIST 585 and POLS 668.) LEC

EALC 586 Ancient and Medieval Japan (3). NW H/W This course offers an overview of the political narrative and an introduction to the major cultural, religious, and social trends from the prehistoric era up through the Warring states period (sixteenth century). Specific topics addressed include the history of women, popular belief, pariah groups, and the performing arts. (Same as HIST 586.) LEC

EALC 587 Early Modern Japan (3). NW H/W Early modern Japan (16th to 19th century) examines the history, culture, and patterns of life during an era of rigid social control but artistic brilliance. After an historical overview of the period, students will explore topics including the social structure, travel, religion, thought, and the formation of traditional cultural forms such as Kabuki theatre. (Same as HIST 587.) LEC

EALC 588 Japan, 1853-1945 (3). NW H/W This course provides an intensive survey of Japanese history from the arrival of Commodore Perry through the Pacific War. Social, economic, and political themes will be emphasized. Among the topics covered will be the Meiji Restoration, industrialization, Japanese imperialism, Taisho democracy, and wartime mobilization. (Same as HIST 588.) LEC

EALC 589 Japan Since 1945 (3). NW H/W This course provides an overview of Japanese history from the end of World War II to the present day. Among the topics covered will be the Allied Occupation, post-war politics and social change, the economic "miracle," popular culture, women and the family, crime and punishment, the educational system, and Japan's place in the world. (Same as HIST 589.) LEC

EALC 590 Topics in East Asian Languages and Cultures: _____ (1-9). H/W Specific topical courses will be offered every year covering a number of disciplines. Credit, description, and prerequisites will vary. Note: May be repeated for credit up to the stated limit. LEC

EALC 591 Topics in East Asian Languages and Cultures: _____ (1-9). S/W Specific topical courses will be offered every year covering a number of disciplines. Credit, descriptions, and prerequisites will vary. Note: May be repeated for credit up to the stated limit. LEC

EALC 592 Huns, Turks, and Mongols: The Nomad Factor in History (3). NW H/W A survey of the history and the institutions of the Eurasian steppes, and an examination of the varying impact of the steppe tribes upon the civilizations of China, India, Persia, Islam, and the West. (Same as HIST 592.) LEC

EALC 593 Modern Korea (3). NW H/W This course will examine selected topics in Modern Korean history in the 19th and 20th centuries, with special emphasis on Korea's connections to China and Japan. (Same as HIST 593.) Prerequisite: A college-level course in East Asian history or culture, or consent of instructor. LEC

EALC 594 Law and Society in Traditional China (3). H/W The course begins with a series of lectures on the main principles underlying Chinese social structure. The course then examines the application of those principles in legal cases. Students read legal cases in translation and argue them in class. (Same as HIST 594.) Prerequisite: A course in Chinese history. LEC

EALC 595 Business and Industry in Japan (3). NW H/W An introduction to the economic and business history of Japan from the 19th century to the present day. Topics discussed will include the evolution of industrial policy, labor relations, production management practices, trade frictions with the United States, and the applicability of the Japanese model to other economies today. (Same as HIST 595.) LEC

EALC 596 Defining Japan: Marginalized Groups and the Construction of National Identity (3). NW H/W This course investigates the construction of national identity in modern Japan by examining the historical experiences of groups marginalized by mainstream society. We will explore the pressures of conformity, the pervasiveness of social ostracism and the surprising diversity in Japanese society. Among the groups discussed will be indigenous peoples (the Ainu, Okinawans),

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the Korean minority, the outcast class (burakumin), the sick and disabled, the Yakuza, and political activists. (Same as HIST 596.) LEC

EALC 597 Japanese Theatre History (3). NW H/W This course examines the historical development and characteristics of Japanese theatre, with special attention to traditional theatre and the genres of noh, kyogen, and kabuki in particular, tracing their origins in the pre-modern era and their continued performance today. To gain an understanding of the historical and artistic setting of these arts, lectures and readings will consider broader issues such as performance and ritual in religion and daily life, gender and representation, and folk theatre. A portion of this class will include practical studies of theatrical forms including noh dance and kabuki music (shamisen). (Same as HIST 597.) LEC

EALC 598 History and Structure of the Japanese Language (3). H/W The historical development of Japanese. Study of Japanese phonology, morphology and syntax, using the techniques of descriptive linguistics and generative grammar. Prerequisite: An introductory course in linguistics or one year of Japanese. LEC

EALC 600 Biography of a City: _____ (3). H/W This interdisciplinary, team-taught course surveys the artistic, intellectual, and historical development of some of the great cities of the world, such as Kyoto or Tokyo. LEC

EALC 620 Daily Life in China from the Opium War to the Present (3). NW H/W Daily life and issues of social and cultural interaction between China and Western nations from the Opium War to the present. Fiction, travel diary, historical sources, film, and personal accounts will make up course materials. LEC

EALC 636 Women in Japanese Literature (3). H/W An examination of women as subjects, readers, and writers of Japanese literature. Topics may include images and stereotypes of women in Japanese literature; feminist readings of this literature; female culture; and the psychodynamics of female creativity. LEC

EALC 642 Chinese Thought (3). NW H/W A survey of the principal modes of Chinese thought from their origins through the imperial period. Not open to students with credit in EALC 132. (Same as HWC 524 and PHIL 506.) Prerequisite: Eastern civilizations course or a course in Asian history or a distribution course in philosophy. LEC

EALC 646 Chinese Law (3). H/W The history and development of civil and criminal law in China from its beginnings until the present. The course will be taught both by lectures and by discussion of cases. A section of the course will concern modern Chinese law. Prerequisite: A course on China, or general background in law or business. LEC

EALC 649 Doing Business With China: Law and Policy (3). NW H/W A study of the issues involved in doing business with China. The current Chinese political and economic context will be examined, followed by a study of the Chinese legal system and Chinese economic law and regulation. Relevant U.S. law will also be considered. Prerequisite: A course on China, or general background in law or business. LEC

EALC 656 Government and Politics of East Asia (3). NW S/W A comparative examination of the contemporary political institutions, processes and ideas of China, Japan, and Korea. (Same as POLS 656.) Prerequisite: A distribution course in political science or a course in East Asian studies. LEC

EALC 666 Political Economy of East Asia (3). S This course provides basic understanding of fiscal, monetarist, and trade policies; how governments in East Asia use them to pursue growth; the extent to which these governments follow or controvert economics to pursue growth; and how the performances of economies in East Asia relate to the US and global economies. (Same as POLS 666.) Prerequisite: POLS 150. LEC

EALC 676 International Relations of Asia (3). S/W An intensive study of the problems of ideological conflict, diplomatic relations, strategic arrangements, economic cooperation, and cultural exchange in East and Southeast Asia with special emphasis upon the roles of major world powers. (Same as POLS 676.) Prerequisite: POLS 170 or a course in East Asian studies. LEC

EALC 678 Chinese Foreign Policy (3). S/W In-depth examination of China's changing policies toward other countries with special emphasis on policy-making process, negotiating behavior, military strategy, economic relations, and cultural diplomacy. (Same as POLS 678.) LEC

EALC 700 Introduction to East Asian Studies (1).

EALC 710 Styles of Acting: Classical Japanese (3).

EALC 712 Readings in Traditional Japanese Literature (3).

EALC 714 Readings in Traditional Chinese Literature (3).

EALC 716 Readings in Modern Japanese Literature (3).

EALC 718 Readings in Modern Chinese Literature (2-3).

EALC 732 Seminar in Eastern Religious Thought: _____ (3).

EALC 733 Seminar in Eastern Religious Texts: _____ (3).

EALC 747 Teaching About East Asia (2).

EALC 762 Readings in Japanese Religion (3).

EALC 766 Japanese People: Their Culture and Literature (3).

EALC 776 Seminar in Religion and Society in Asia: _____ (3).

EALC 790 Topics in East Asian Languages and Cultures: _____ (1-3).

● Eastern Civilizations Courses

ECIV 104 Eastern Civilizations (3). HL,NW H/W An introductory course designed to acquaint the student with the broad outlines of the traditional cultures and literatures of India, China, and Japan. By reading translations of original source materials, the student will be able to see the interaction between these three cultures as well as their essential continuity. The course is most appropriate for students without any background in Asian culture. LEC

ECIV 105 Eastern Civilizations Honors (3). HL,NW H/W An introductory course designed to acquaint the student with the broad outlines of the traditional cultures and literature of India, China, and Japan. By reading translations of original source material, the student will be able to see the interaction between these three cultures as well as their essential continuity. The course is most appropriate for students without any background in Asian culture. Offered for students with superior academic records. LEC

ECIV 304 Eastern Civilizations (3). HL,NW H/W An introductory course designed to acquaint the student with the broad outlines of the traditional cultures and literature of India, China, and Japan. By reading translations of original source material, the student will be able to see the interaction between these three cultures as well as their essential continuity. The course is most appropriate for students without any background in Asian culture. Same as ECIV 104, but there will be some additional work appropriate to a 300-level course. LEC

ECIV 305 Eastern Civilizations Honors (3). HL,NW H/W An honors section. An introductory course designed to acquaint the student with the broad outlines of the traditional cultures and literatures of India, China, and Japan. By reading translations of original source materials, the student will be able to see the interaction between these three cultures as well as their essential continuity. The course is most appropriate for students without any background in Asian culture. Same as ECIV 105, but there will be some additional work appropriate to a 300-level course. Offered for students with superior academic records. LEC

● Japanese Courses

JPN 100 Beginning Japanese I (3). U An introduction to Japanese for students enrolling in the Summer Study Abroad Program. Familiarity with the basic structural patterns of the language is stressed through general conversation. The hiragana and katakana syllabaries are introduced. LEC

JPN 101 Beginning Japanese II (3). U Continuation of JPN 100. Available to students who took JPN 100 as part of the Summer Study Abroad Program. Not available for credit for students who have previously completed JPN 104. Prerequisite: JPN 100 or equivalent. LEC

JPN 104 Elementary Japanese I (5). U Three hours of lecture, three hours of drill per week. Acquisition of basic language skills (listening, speaking, reading, writing). Not available for credit for students who have previously completed JPN 101. LEC

JPN 108 Elementary Japanese II (5). U Continuation of JPN 104. Prerequisite: JPN 101, JPN 104, or equivalent. LEC

JPN 204 Intermediate Japanese I (5). U Three hours of lecture, three hours of drill. Prerequisite: JPN 108 or equivalent. LEC

JPN 206 Intermediate Japanese Conversation (2-4). U Enhancement of conversational ability at the intermediate level. Used primarily to accommodate transfer credits. Prerequisite: JPN 204 or equivalent. LEC

JPN 208 Intermediate Japanese II (5). U Continuation of JPN 204. Prerequisite: JPN 204. LEC

JPN 226 Japanese in Context: Intermediate (3). U Supervised and individualized study and practice of language skills through direct experience in interviews and guided practical applications in various public settings in Japan. Some conventional classroom instruction in grammar included. Offered only during the Summer Institute in Hiratsuka, Japan. Prerequisite: Two semesters or the equivalent of Japanese language study. LEC

JPN 306 Advanced Japanese Conversation I (2). H/W Intensive practice of communicative skills at the advanced level. Prerequisite: JPN 208 or equivalent. LEC

JPN 310 Advanced Japanese Conversation II (2). H/W Continuation of JPN 306. LEC

JPN 326 Japanese in Context: Advanced (3). U Supervised and individualized study and practice of language skills through direct experience in interviews and guided practical applications in various public settings in Japan. Some conventional classroom instruction in grammar and usage. Offered only during the Summer Institute in Hiratsuka, Japan. Prerequisite: Four semesters or the equivalent of Japanese language study. LEC

JPN 386 Advanced Japanese Conversation (2). U This course provides an opportunity to foster conversational ability at the advanced level, as a supplement to regular courses. Prerequisite: JPN 504 or equivalent. LEC

JPN 498 Directed Readings in Japanese (1-4). H/W Readings in Japanese on a subject selected by a student with the advice and direction of the instructor. Individual meetings and reports. Prerequisite: Consent of instructor. IND

JPN 504 Advanced Modern Japanese I (3). H/W Readings in selected modern Japanese texts on various topics: history, education, language, society, business, and literature. Meets three hours per week. Prerequisite: JPN 208 or equivalent. LEC

JPN 508 Advanced Modern Japanese II (3). H/W Continuation of JPN 504. Prerequisite: JPN 504 or equivalent. LEC

JPN 509 Business Japanese (3). U Study of Japanese language especially appropriate to business situations. Although the course emphasizes developing conversational ability, the primary focus is on strengthening reading and writing in the specialized area. The course includes discussion of non-verbal aspects of Japanese business practices as well. Prerequisite: The first semester of third-year Japanese or the equivalent. LEC

JPN 542 Introduction to Classical Japanese I (3). H/W Introductory grammar and readings in classical Japanese texts. Prerequisite: JPN 508. LEC

JPN 544 Introduction to Classical Japanese II (3). H Continued readings of classical Japanese texts, on the intermediate and advanced level. Introduction to the elements of *kambun* (Sino-Japanese) and *sorobun* (epistolary) styles. Prerequisite: JPN 542 or equivalent. LEC

JPN 562 Modern Japanese Texts I (3). H/W Readings and interpretation of modern Japanese texts from various fields. Continued study of the language in the form of oral discussion and written reports. Prerequisite: JPN 508. LEC

JPN 564 Modern Japanese Texts II (3). H/W A continuation of JPN 562. Prerequisite: JPN 562 or equivalent. LEC

JPN 569 Advanced Business Japanese (3). U This course strengthens reading and writing skills and continues developing conversational ability. It assumes a higher level of competency in Japanese than JPN 509 and includes both verbal and non-verbal aspects of Japanese business practices. Prerequisite: Completion of third-year Japanese or equivalent. LEC

JPN 598 Readings in: ____ (1-3). H/W Students will read selections from materials on a given topic or topics. May be repeated for credit. Prerequisite: JPN 564 or permission of instructor. IND

JPN 690 Seminar in: ____ (1-3). H/W Varying topics with varying prerequisites. LEC

● Korean Courses

KOR 104 Elementary Korean I (5). U Five hours of class and two hours of drill in the spoken language each week. Grammar and readings in selected texts. LEC

KOR 108 Elementary Korean II (5). U Continuation of KOR 104. Prerequisite: KOR 104. LEC

KOR 204 Intermediate Korean I (5). U Five hours of class and two hours of spoken drill. Readings in selected texts in modern Korean. Prerequisite: KOR 108 or equivalent. LEC

KOR 208 Intermediate Korean II (5). U Continuation of KOR 204. Prerequisite: KOR 204. LEC

KOR 498 Directed Readings in Korean (1-4). H/W Readings in Korean on a subject selected by a student with the advice and direction of the instructor. Individual meetings and reports. Prerequisite: Consent of instructor. IND

KOR 504 Advanced Modern Korean I (5). H/W Five hours of class and two of drill. Readings in selected modern Korean texts on various topics: history, literature, society, and language. Prerequisite: KOR 208 or equivalent. LEC

KOR 508 Advanced Modern Korean II (5). H/W Continuation of KOR 504. Prerequisite: KOR 504 or equivalent. LEC

● Uyghur Courses

UYGR 104 Elementary Uyghur I (5). U Uyghur is an important Central Asian Turkic language spoken by nine million people in China. The first semester is designed to give the student basic communicative competency, including pronunciation and intonation, structure, and syntax. Effective oral and written communication are stressed. LEC

UYGR 108 Elementary Uyghur II (5). U Uyghur is an important Central Asian Turkic language spoken by nine million people in China. The second semester continues building on basic communicative competency, expanding communicative domains, vocabulary, and structural range. Effective oral and written communication are stressed. Prerequisite: UYGR 104. LEC

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Degrees offered: B.A., B.G.S., B.S., M.A., Ph.D

Course work in economics is offered for students who want to acquire insight into the basic relationships of the modern economy, for students who plan to teach social sciences in secondary schools, for students planning to enter the School of Business, and for students majoring in economics either as a goal in itself or as preparation for graduate work.

Courses for Nonmajors

ECON 104 is recommended for students who want only an introductory course. Students planning to teach social sciences should consult the School of Education chapter of this catalog. Students who plan to enter the School of Business in the junior year should consult the School of Business chapter. Students who plan to enter the School of Journalism should see School of Journalism and Mass Communications.

Majors

First- and Second-year Preparation. Students considering an economics major should enroll in ECON 142/ECON 143 Principles of Microeconomics or ECON 144/ECON 145 Principles of Macroeconomics no later than the sophomore year. For the B.A. or B.G.S., a statistics course in the mathematics department fulfills the statistics requirement for the economics major and the second mathematics course requirement. For the B.S., students should complete ECON 520 (or ECON 524) and MATH 122 by the end of the sophomore year.

Requirements for the B.A. or B.G.S. Major. A total of 27 or 28 hours in economics and 3 or 4 hours in statistics is required. Economics courses must include

ECON 142/ECON 143 Principles of Microeconomics	3
ECON 144/ECON 145 Principles of Macroeconomics	3
ECON 520/ECON 521 Microeconomics (3) or	
ECON 524/ECON 525 Managerial Economics (4)	3-4
ECON 522/ECON 523 Macroeconomics	3
Five additional courses in economics	15

The statistics course requirement may be fulfilled by taking MATH 365 or DSCI 301 or MATH 526.

At least three of the required elective courses must be taken from the KU Department of Economics. ECON 310, ECON 496, or ECON 497 does not satisfy this elective course requirement.

ECON 140, a previously offered 4-hour introduction to microeconomics and macroeconomics, can be substituted for ECON 142 and ECON 144.

Requirements for the B.S. Degree. A total of 124 credit hours is required, as follows:

General Education Requirements (55-57 hours)

English: same as Bachelor of Arts degree requirements; see College of Liberal Arts and Sciences: General Requirements ...	9
Western civilization	6
Mathematics: completion of MATH 115, MATH 116, and MATH 122; or MATH 121 and MATH 122	10-11
Statistics: MATH 526 or DSCI 301	3-4
Principal Course Distribution Requirements: same as Bachelor of Arts degree requirements; see College of Liberal Arts and Sciences: General Requirements	27

Non-economics Electives. At least three courses at the 300 level or above.

Junior/Senior Credit Hours. Forty-five hours at the 300 level or above.

Economics Requirements (36 or 37 hours)

<i>Economics Core Courses</i> (18 or 19 hours). These courses are required:	
ECON 142/ECON 143 Principles of Microeconomics	3
ECON 144/ECON 145 Principles of Macroeconomics	3
ECON 520/ECON 521 Microeconomics (3) or	
ECON 524/ECON 525 Managerial Economics (4)	3-4

ECON 522/ECON 523 Macroeconomics	3
ECON 715 Elementary Econometrics	3
ECON 700 Survey of Microeconomics	3
ECON 140, a previously offered 4-hour introduction to microeconomics and macroeconomics, can be substituted for ECON 142 and ECON 144.	

Economics Area Courses (18 hours). The student must complete two courses in each of three of the following areas (6 hours in three areas equals 18 hours in area courses):

1. **Public and Resource Economics:** ECON 510, ECON 515, ECON 550, ECON 595, ECON 610, ECON 622, ECON 675, ECON 760, ECON 761.
2. **Growth and Development and Area Economics:** ECON 536, ECON 560, ECON 562, ECON 563, ECON 582, ECON 583, ECON 584, ECON 585, ECON 586, ECON 587, ECON 740, ECON 741.
3. **Economic History and History of Economic Thought:** ECON 505, ECON 530, ECON 534, ECON 535, ECON 540, ECON 635, ECON 705, ECON 766, ECON 768.
4. **Applied Microeconomics:** ECON 590, ECON 630, ECON 631, ECON 640, ECON 670, ECON 730, ECON 770.
5. **Macroeconomics and International Trade:** ECON 600, ECON 604, ECON 605, ECON 701, ECON 750.
(ECON 700, ECON 715, and at least four of the six required electives must be taken from the KU Department of Economics. The prerequisites for ECON 700 and ECON 715 include completion of ECON 142, ECON 144, ECON 520, and ECON 522 with a grade-point average of at least 3.0—B.)

Electives. The student may choose elective hours to bring the total to 124 for the degree, with the following conditions: At least 9 credit hours of electives must be at the 300 level or above outside of economics. No more than 45 hours in economics may be counted within the 124 hour required for the degree.

Requirements for the Minor. A total of 18 hours in economics is required. Economics courses must include

ECON 142/ECON 143 Principles of Microeconomics	3
ECON 144/ECON 145 Principles of Macroeconomics	3
Four economics courses at the 300 level or above	12

Honors. Graduation with honors in economics is limited to majors who have fulfilled these requirements:

1. Completed all economics major requirements and achieved a grade-point average of 3.5 or above in all economics courses and an overall average of 3.25 or above at the time of graduation.
2. Completed ECON 497 Senior Research, Honors.
3. Submitted and defended a research paper before at least three faculty members of the Department of Economics.

Honors candidates should consult the department honors coordinator before enrolling the first semester of the senior year and file a declaration of intent form with the coordinator at that time.

● Economics Courses

ECON 104 Introductory Economics (4). SF S An introduction to modern economics designed primarily for students who do not plan to major in economics. Topics include economic history, the operation of economic institutions, and the formation and execution of economic policies to meet the current problems of the domestic and international economy. Prerequisite: MATH 101 or MATH 104, or eligibility for MATH 115 or MATH 121. LEC

ECON 105 Introductory Economics, Honors (4). SF S An introduction to modern economics designed primarily for students who do not plan to major in economics. Topics include economic history, the operation of economic institutions, and the formation and execution of economic policies to meet the current problems of the domestic and international economy. Prerequisite: Consent of the Economics Department and MATH 101 or MATH 104, or eligibility for MATH 115 or MATH 121. LEC

ECON 142 Principles of Microeconomics (3). SF S An analytical introduction to microeconomics. Topics include theory of markets, public policy, international trade, economic efficiency, and equity. Prerequisite: MATH 101 or MATH 104, or eligibility for MATH 115 or MATH 121. LEC

ECON 143 Principles of Microeconomics, Honors (3). SF S An honors section of ECON 142. An analytical introduction to microeconomics. Topics include theory of markets, public policy, international trade, economic efficiency, and equity. Prerequisite: Consent of the Economics Department and MATH 101 or MATH 104, or eligibility for MATH 115 or MATH 121. LEC

ECON 144 Principles of Macroeconomics (3). SF S An analytical introduction to macroeconomics. Topics include determination of aggregate income, employment, inflation, exchange rates, and the role of fiscal and monetary policy in dealing with unemployment, inflation, and economic growth. Prerequisite: MATH 101, MATH 104, or eligibility for MATH 115 or MATH 121. LEC

ECON 145 Principles of Macroeconomics, Honors (3). SF S An honors section of ECON 144. An analytical introduction to macroeconomics.

Topics include determination of aggregate income, employment, inflation, exchange rates, and the role of fiscal and monetary policy in dealing with unemployment, inflation, and economic growth. Prerequisite: Consent of the Economics Department and MATH 101, MATH 104, or eligibility for MATH 115 or MATH 121. LEC

ECON 310 Topics in Applied Economics: ____ (3). S (Topic, instructor, and specific prerequisites to be announced in the Timetable of Classes.) This course will focus on an area of applied economics of current interest. This course cannot be used to fulfill the elective course requirements for the Economics major or the Economics minor. LEC

ECON 496 Research in Economics (1-3). S A directed reading and research course for economics majors. The course involves the preparation of a research paper under the supervision of a faculty member whose area of interest and specialization corresponds with the area of study selected by the student. Prerequisite: Approval of major adviser and selected faculty member. IND

ECON 497 Senior Research Honors (1-3). S Open to seniors in the College who have a grade-point average of 3.5 or above in economics and a grade-point average of 3.25 or above in all courses. A directed reading and research course for qualifying seniors. Involves preparation of a research paper under the supervision of a faculty member whose area of interest and specialization corresponds with the area of study selected by the student. Prerequisite: Approval of major adviser and selected faculty member. IND

ECON 505 History of Economic Analysis (3). S The history of intellectual efforts to understand economic phenomena and the impact of these efforts on the social and economic development of the modern world. Prerequisite: ECON 104 or ECON 142 and ECON 144. LEC

ECON 510 Energy Economics (3). S The application of basic economic concepts and methods to the analysis of energy markets, regulation, and policies. Topics covered include energy trends and projections, economic growth and resource exhaustion, the organization and regulation of fossil fuel industries, nuclear power and non-conventional energy technologies, the world oil market, energy conservation, environmental pollution, and national energy policies in the U.S. and other developed as well as developing countries. Prerequisite: ECON 142 and ECON 144 or permission of instructor. LEC

ECON 515 Income Distribution and Inequality (3). S An analysis of the distribution of income and wealth in the United States and a few other developed countries. The concepts of economic inequality, economic justice, statistical measures of inequality and their applications will be discussed. Various theories of income distribution (e.g., Ricardian, Marxian, neoclassical, and neo-Keynesian) will be covered. Prerequisite: ECON 142 and ECON 144. LEC

ECON 520 Microeconomics (3). S The theory of consumption, production, pricing, and resource allocation. Not open for credit to students with credit in ECON 524. Prerequisite: ECON 142 and ECON 144. LEC

ECON 521 Microeconomics Honors (3). S The theory of consumption, production, pricing, and resource allocation. Prerequisite: ECON 142 and ECON 144 and consent of department. LEC

ECON 522 Macroeconomics (3). S The theory of national income and employment, the analysis of aggregate demand, the general degree of utilization of productive resources, the general level of prices, and related questions of policy. Prerequisite: ECON 142 and ECON 144. LEC

ECON 523 Macroeconomics Honors (3). S The theory of national income and unemployment, the analysis of aggregate demand, the general degree of utilization of productive resources, the general level of prices, and related questions of policy. Prerequisite: ECON 142 and ECON 144 and consent of department. LEC

ECON 524 Managerial Economics (4). S Analysis of economic factors affecting decisions made by firms. Topics include demand and supply, production and cost, profit maximization, market structure, and pricing and economics of information. Not open for credit to students in ECON 520. Prerequisite: ECON 142 and ECON 144. LEC

ECON 525 Managerial Economics, Honors (4). S Analysis of economic factors affecting decisions made by firms. Topics include demand and supply, production and cost, profit maximization, market structure, and pricing and economics information. Prerequisite: ECON 142 and ECON 144. LEC

ECON 530 American Economic Development (3). H An introductory study of the development of the American economy from colonial times to the present. Investigates long-term trends in output, population, and output per capita, as well as short-term fluctuations, and the variables and institutions that determined these fluctuations and trends. (Same as HIST 628.) Prerequisite: ECON 104 or ECON 142 and ECON 144. LEC

ECON 534 Economic History of the Caribbean Region (3). S/W A study of the origin and development of slave-plantation colonies in the West Indies, slave emancipation movements, and post-emancipation economic developments, chiefly in the British West Indies, Cuba, Puerto Rico, and the Virgin Islands. Study of the historical background of current economic problems. Prerequisite: ECON 104 or ECON 142 and ECON 144. LEC

The 2005 book Student Success in College: Creating Conditions That Matter lists KU as one of 20 schools that foster student achievement. It praises KU for its emphasis on high-quality undergraduate instruction and for its above-average graduation rate.

Courses with a _____ at the end of their titles are typically topics or seminar courses that may be repeated for credit. Usually these courses offer different topics each time they are offered. Check with the course instructor about requirements and topics.

ECON 535 Economic History of Europe (3). S An introductory study of European economic history from the Middle Ages to the 1980s. Investigates the sources of economic growth, and the interaction between economic forces and social institutions. Topics covered will include the rise of commerce, the agricultural and industrial revolutions, imperialism, the Great Depression, and European recovery after World War II. (Same as HIST 528.) Prerequisite: ECON 104 or ECON 142 and ECON 144. LEC

ECON 536 Economic Issues in Europe (3). S A survey of the economies of the European Union, with a focus on the economic development of the member states since World War II, and an examination of the economic issues confronting them today. Topics covered will include the European Monetary System, fiscal and monetary policy, trade and agricultural policies, and the political economy of NATO. (Same as EURS 536.) Prerequisite: ECON 104 or ECON 144. LEC

ECON 540 Recent American Economic History (3). S An empirically oriented examination of the American economy designed to apply economic concepts to a wide variety of topics such as monetary and fiscal policy, income distribution, the Great Depression, poverty, population growth, the defense sector, education, research and development, technological change, and industrial organization. Prerequisite: ECON 104 or ECON 142 and ECON 144; ECON 520 and/or ECON 522 recommended. LEC

ECON 550 Environmental Economics (3). U This course provides an overview of the theory and empirical practice of economic analysis as it applies to environmental issues. Topics include externalities (a type of market failure), the valuation of nonmarket goods, the practice of benefit-cost analysis, and the efficiency and cost effectiveness of pollution control policies. Most importantly, the course permits students to perform economic field research, using state-of-the-art techniques in a manner accessible to undergraduate students. (Same as EVRN 550.) Prerequisite: ECON 104 or ECON 142. LEC

ECON 560 Economic Systems (3). S Critical analysis of economic theories underlying such economic systems as capitalism, different types of socialism, communism, and fascism. Comparative study of economic planning, production, distribution, price formation, economic institutions, and forms of government in countries under different economic systems. Prerequisite: ECON 104 or ECON 142 and ECON 144. LEC

ECON 562 The Russian Economy (3). S/W An analytical survey of Russian economic development, with emphasis on the structure and operation of the Russian economy and transition issues. Prerequisite: ECON 104 or 142 and ECON 144 and consent of instructor. LEC

ECON 563 Current Economic Issues of East Europe (3). S An institutional and theoretical analysis of the issues arising from the transition from a command economy to a free market-oriented economy. With emphasis on the former Soviet Union, topics will include: assessment of the central planning experience; changes in property rights and their effect on resource allocation; market mechanisms and how they work when market institutions are at the formative stage; and public interest under privatization. Prerequisite: ECON 142 and ECON 144. LEC

ECON 564 Topics in Applied Economics: _____ (3). S This course will focus on an area of applied economics of current interest. This course can be used to fulfill the elective course requirement for the Economics major. Prerequisite: ECON 142 and ECON 144. LEC

ECON 582 Economic Growth and Development (3). S An introduction to economic growth and development in high and low income countries, problems of development, and development policy. Prerequisite: ECON 104 or ECON 142. LEC

ECON 583 Economic Issues of East Asia (3). S This course will study the economics of the East Asian countries, especially China, Japan, Korea, and Taiwan. Topics to be covered include economic growth, development and change, international trade, inflation, unemployment, income distribution, and urbanization. Emphasis will be on the post World War II period. Prerequisite: ECON 104 or ECON 142 and ECON 144. ECON 522 recommended. LEC

ECON 584 Economic Development of Latin America (3). S This course explores development strategies followed in the countries of Latin America and the Caribbean, and analyzes current debates over development strategy. Topics covered include: debt, structural adjustment, and multilateral lending agencies; trade policy, and regional or hemispheric integration; state intervention in the economy; the role of elites; environmental degradation and sustainable development; land reform and agricultural policy; transnational enterprises and foreign investment; women in work and the household; migration (rural-urban, and international); and grassroots development projects. Prerequisite: ECON 104 or ECON 144. LEC

ECON 585 Elements of Economic Planning (3). S This course is designed to introduce students to the following three aspects of economic planning: the theory of planning, the techniques of planning, and the practices of planning. The theory of planning emphasizes the study of information flows and mechanisms of resource allocation. Techniques of planning introduce programming and statistical methods that are utilized in formulating plans including an introduction to selected models that are used in formalizing planning procedures. Practices of economic planning consist of an exposition of economic policy coordination on national and regional levels as well as the study

of planning methodology in command and non-command economies. Prerequisite: ECON 520 or ECON 524 and ECON 522. LEC

ECON 586 Economic Issues in China (3). S This course studies the Chinese economy, especially during the post-1979 reform period, and its relationship to the development of the Greater China Circle (China, Hong Kong, and Taiwan). Topics to be covered include economic development during the pre-1979 reform period, economic reform, and its impacts on China, Hong Kong, Taiwan, and lessons from the Chinese economic reforms. Prerequisite: ECON 142 and ECON 144. LEC

ECON 587 Economic Development of Africa (3). S This course studies current economic issues facing African countries. It studies the general characteristics of several African economies and examines the impact of economic development policies, including those of international organizations, on the economies of Africa. Topics include poverty, income inequality, debt, foreign investment policies, trade policies, and government regimes. Prerequisite: ECON 104 or ECON 142 and ECON 144. LEC

ECON 590 Game Theory (3). S Analysis of strategic choice problems. Firms, voters, bargainers, animals, sports competitors, and persons in everyday life choose alternative options with the outcomes depending on the choices of one or more other similar decision makers. Strategies of rational choices will be derived and analyzed in economic and other environments. Prerequisite: ECON 142. LEC

ECON 595 Regional Economics (3). S Identification of the patterns of regional economic growth and income disparities, and an analysis of their determinants. Topics covered include the goals and objectives of regional economic development, the regional location decisions of firms and households, and government regional economic policy. Prerequisite: ECON 104 or ECON 142 and ECON 144. LEC

ECON 600 Money and Banking (3). S The basic principles of money, credit, and banking and their relation to prices and business fluctuations; a study of commercial and central banking and the problems of credit control. Prerequisite: ECON 522. LEC

ECON 604 International Trade (3). S An introduction to the non-monetary theory of international trade, the cause and pattern of trade, the gains from trade, and the contemporary issues in international economic policy. Prerequisite: ECON 520 or ECON 524. LEC

ECON 605 International Finance (3). S This course surveys theories of exchange rate and balance of payments determination. Included are the elasticity approach, Keynesian models, and the monetary approach. The mechanics of foreign exchange trading, balance of payments accounting, and the working of the international monetary system are also discussed. Prerequisite: ECON 522. LEC

ECON 609 Sports Economics (3). S The course covers the microeconomics of the sports industry. Topics include analysis of teams, leagues, players, incomes, strategies, history, and government policy. Prerequisite: ECON 520 or permission of instructor. LEC

ECON 610 Resource Economics and Environmental Policy (3). Survey of the economics of natural resources, designed to introduce the student to the economic models and analytical methods commonly used in natural resource problems and policy issues. Topics covered include environmental pollution and regulation, environmental case studies and applications of cost-benefit analysis, theoretical models, policy issues in the utilization of renewable and nonrenewable resources, sustainable development, and global environmental problems. Prerequisite: ECON 520 or ECON 524 or permission of instructor. LEC

ECON 620 Elements of Mathematical Economics (3). S Selected aspects of economic theory with emphasis on those parts where the spirit of mathematical analysis, rather than dexterity, is utilized. The simplification of the subject matter is accomplished by stressing complete treatment of special cases such as a two commodity-two individual world. Prerequisite: ECON 520 or ECON 524 and MATH 116 or MATH 121. LEC

ECON 622 Public Finance (3). S A general introduction to the science of public finance. Topics covered include public expenditures, public revenues and public credit, and the shifting and incidence of taxation. Prerequisite: ECON 520 or ECON 524. LEC

ECON 630 Industrial Organization and Antitrust Policy (3). S An examination of the structure, conduct and performance of American industry applying the concepts and techniques of economic analysis. Topics covered include the theories of monopoly, competition and oligopoly, concentration, barriers to entry, price-fixing and other restrictive practices, mergers, technological change, and public regulation. The course will also focus on the historical development of American antitrust law. Prerequisite: ECON 520 or ECON 524. LEC

ECON 631 Economics of Regulation (3). S This course studies topics in the economic effects of industry regulation by administrative agencies as a substitute for market competition. Topics include various theories of regulatory behavior, the theory of natural monopoly, the economic effects of rate of return regulation on the performance of electric utilities, and the effects of recent social and environmental regulation. Prerequisite: ECON 520 or ECON 524. LEC

ECON 635 Science and Technology in Economic Growth (3). S An analytical and historical exploration of the roles that science and technology have played in the economic growth of industrial societies. This course will examine the forces that have shaped the rate and direction

of technological change, and the impact of technological change on Western living standards. Topics covered will include factors influencing the pace of innovation, the diffusion of new technologies, international technology transfers, growth accounting, and models of aggregate economic growth. Prerequisite: ECON 520 or ECON 524. LEC

ECON 640 Labor Economics (3). S Analysis of labor markets and differences in wage rates and incomes. Topics include returns to education and training, labor unions, unemployment, anti-poverty programs, and other government policies influencing the labor market. Prerequisite: ECON 520 or ECON 524. LEC

ECON 670 Economics of Future Markets (3). S An introduction to the economic functions of commodity and financial future markets. Hedging and speculation in grain, stock index, interest rate, and foreign exchange future markets are the main topics that will be covered. Analysis of basis determination, future price behavior, contract specifications, and regulatory issues will also be discussed. Prerequisite: ECON 520 or ECON 524 and MATH 526 or DSCI 301. LEC

ECON 675 Introduction to Welfare Economics (3). S This course provides a nontechnical introduction to optimal resource allocation from the societal point of view as well as alternative individual mechanisms for achieving such an optimum. Prerequisite: ECON 520 or ECON 524. LEC

ECON 695 Regional Economic Analysis (3). S Analysis of regional economic growth and inter-regional disparities. Examination of major theories of economic development in the context of regional economic problems. Introduction to selected techniques of regional analysis, including economic base multipliers, input-output models, and shiftshare analysis. Prerequisite: ECON 520 or ECON 524. LEC

ECON 700 Survey of Microeconomics (3).

ECON 701 Survey of Macroeconomics (3).

ECON 705 Development of Economic Thought (3).

ECON 715 Elementary Econometrics (3).

ECON 716 Econometric Forecasting (3).

ECON 730 Topics in Industrial Organization (3).

ECON 735 Science and Technology in Economic Growth (3).

ECON 740 Theory of Economic Growth and Development (3).

ECON 741 Economic Planning (3).

ECON 750 The Theory of International Finance (2-3).

ECON 760 The Theory of Public Finance (3).

ECON 761 Public Sector: Urban and Regional Finance (3).

ECON 765 Advanced American Economic Development (3).

ECON 766 Economic History (3).

ECON 768 The Industrial Revolution (3).

ECON 769 Financial Economics (3).

ECON 770 Economics of the Labor Market (3).

English Courses Required for All Students

For the B.A. and B.G.S. degrees in the College of Liberal Arts and Sciences, for the Schools of Journalism and Mass Communications and Social Welfare, and for students in the School of Education concentrating in secondary education, these English courses are required: ENGL 101 and ENGL 102 (or ENGL 105 if eligible for honors), and one course chosen from among ENGL 203, ENGL 205 (if eligible for honors), ENGL 209, ENGL 210, and ENGL 211. For B.S. degrees from the College, and for other schools, see school or department listings.

Students should earn credits in the required first- and second-year courses at the earliest opportunity. All new students must enroll immediately and continuously in ENGL 101 and ENGL 102, or equivalents, until they have completed this portion of the College requirement. Admission to English courses numbered 300 and above normally is limited to students who have completed the first- and second-year requirements.

Courses for Nonmajors

Listings of principal courses appear in the College of Liberal Arts and Sciences: General Requirements chapter. English principal courses under the Literature and the Arts heading are designated HL. Prospective English teachers in the public schools should consult the requirements of the School of Education.

Placement in English

Advanced Placement Examination. The English literature and composition test and the language and composition test are administered by the Educational Testing Service (a subsidiary of the College Entrance Examination Board) to high school seniors. Scores range from 1 to 5.

5 on the literature and composition test: Exemption from first- and second-year English and 6 hours of credit.

5 on the language and composition test: Placement in ENGL 205, completion of which satisfies the English requirement, and 3 hours of credit.

For both the literature and composition test and the language and composition test, scores of 1 to 4 have the following effects at KU:

4: Student receives 3 hours of credit in English and is placed in ENGL 205, completion of which satisfies the English requirement.

3: No credit is awarded. Student is placed in ENGL 105, and the English requirement is reduced to 6 hours.

2: No credit is awarded. Student is placed in ENGL 101 (unless ACT score in English is 31 or higher) but is eligible to take the English department's Honors Placement Examination for possible admission to ENGL 105, which reduces the English requirement to 6 hours.

1: No effect.

ACT Examinations. If students are accepted into the Honors Program, a score of 31 or higher on the ACT English test places them in ENGL 105, and their English requirement is reduced to 6 hours. They may satisfy this requirement by completing ENGL 105 and one of the following: ENGL 205, ENGL 203, ENGL 209, ENGL 210, or ENGL 211. An ACT score of 27 to 30 places them in ENGL 102, and they are eligible to take the English department's Honors Placement Examination for possible admission to ENGL 105. An ACT score of 26 or lower places them in ENGL 101. If students are **not** accepted into the Honors Program, an ACT score of 34 or higher places them in ENGL 105; an ACT English test score of 31 to 33 places them in ENGL 102, and they are eligible to take the Honors Placement Examination. An ACT score of 30 or lower places them in ENGL 101.

B.A. and B.G.S. degrees in Literature, Language, and Writing are offered on KU's Edwards Campus. Call the CLAS undergraduate adviser at 864-8659 (from Lawrence) or (913) 897-8659 (outside of Lawrence) for information.

Contemporary poets, fiction writers, essayists, and literary critics read from their works and speak to classes at KU through the visiting artist program.

English

Chair: Dorice Elliott, delliott@ku.edu
Wescoe Hall, 1445 Jayhawk Blvd., Room 3116
Lawrence, KS 66045-7590
(785) 864-4520, www.english.ku.edu

Director of Undergraduate Studies: Bernard A. Hirsch
3119 Wescoe Hall, (785) 864-2523, bahirsch@ku.edu

Director of Freshman/Sophomore English:
Michael L. Johnson, 3081 Wescoe Hall,
(785) 864-2507, newwestr@ku.edu

Degrees offered: B.A., B.G.S., M.A., Ph.D.

The department teaches students to write clearly and effectively and to read good literature with understanding and pleasure. It offers courses in three general divisions. (1) Literature: Through reading, discussion, and writing, the student develops powers of appreciation and criticism. (2) Language: Courses describe and explain the historical development of the English language and its present structure. They also may introduce the student to works written in earlier forms of the language. (3) Writing: Through reading, discussion, and practice, the student learns to write informative and imaginative prose. Courses in the writing of fiction, poetry, drama, and nonfiction prose are offered.

Departmental Freshman Honors Placement Committee.

This standing committee consists of a suitable number of members of the full-time staff. It designs and administers a writing sample examination for students who request reassignment from ENGL 102 to ENGL 105 and from ENGL 203 (or equivalent) to ENGL 205. The committee, at its discretion, also interviews and examines the records of applicants for placement in first-year honors courses. The placement examination normally is administered a few days before the start of the fall semester and at the end of the fall semester. Information and details on time and place are available in the freshman/sophomore English office, 3081 Wescoe Hall.

Eligibility Requirements for Majors in the Department of English

There are three eligibility requirements for admission to the traditional English major:

1. A grade-point average of 2.5 or higher in the second and third English courses (ENGL 102 or ENGL 105 and a 200-level course).
2. An overall grade-point average of 2.0 or higher.
3. At least 30 hours of college credit completed.

For the creative-writing English major, students are admitted on the basis of successful performance in the first creative-writing course and with the permission of the instructor.

Students with questions about these requirements should meet with the undergraduate director, who can also furnish information about appealing an initial refusal or making up academic deficiencies. Students who declared a major in English before August 1993 are not subject to the eligibility requirements.

Majors

First- and Second-year Preparation. Prospective English majors who have completed the first- and second-year English requirement should take a 300-level English course during the sophomore year and consult with the undergraduate director for further information, especially about eligibility requirements for admission to either the traditional or the creative-writing emphasis of the English major.

Requirements for the B.A. or B.G.S. Major. The department offers two emphases and an Honors variation on each. The Traditional English emphasis and the Creative-writing English emphasis both require at least 30 hours of junior/senior courses (numbered 300 or above). Traditional English majors must take at least two courses (6 hours) numbered 500 or above. The Honors version of each emphasis adds 3 hours to the requirement.

Core requirements are identical for both emphases.

1. ENGL 312 Major British Writers to 1800 or any other English course numbered 300 or above that focuses on British literature of at least one of the literary periods from the Middle Ages to 1800, excluding Shakespeare (3 hours).
2. ENGL 314 Major British Writers after 1800 or any other English course numbered 300 or above that focuses on British literature of at least one of the literary periods from the Romantic Period to the present (3 hours).
3. A course in Shakespeare (ENGL 332, ENGL 626, or ENGL 627) (3 hours).
4. ENGL 320 American Literature I or any other English course numbered 300 or above that focuses on American literature of at least one of the literary periods from Colonial times to 1865 (3 hours).
5. ENGL 322 American Literature II or any other English course numbered 300 or above that focuses on American literature of at least one of the literary periods from 1865 to the present (3 hours).

The *Traditional English emphasis*, in addition, requires completion of 15 junior/senior hours of electives.

A single creative writing course at the 300 level can be applied to this requirement. One course in the HWC 304/HWC 308/HWC 312 sequence may be applied as an elective. ENGL 495 Directed Study: _____ and ENGL 496 Internship may be applied only as electives.

The *Creative-writing English emphasis*, in addition, requires completion of at least 15 hours of creative-writing courses, including work in at least two genres, chosen from the following:

- ENGL 351 Fiction Writing I
- ENGL 352 Poetry Writing I
- ENGL 353 Screenwriting I
- ENGL 354 Playwriting I
- ENGL 360 Advanced Composition: _____ (when the subject is writing creative nonfiction)
- ENGL 495 Directed Study: _____ (with a creative-writing emphasis)
- ENGL 499 Honors Essay (with a creative-writing emphasis)
- ENGL 551 Fiction Writing II
- ENGL 552 Poetry Writing II
- ENGL 553 Screenwriting II
- ENGL 554 Playwriting II
- ENGL 555 Writing Non-fiction
- ENGL 751 Fiction Writing III
- ENGL 752 Poetry Writing III
- ENGL 753 Writers' Workshop
- TH&F 708 Dramatic Script Writing
- TH&F 709 Advanced Dramatic Script Writing

Honors English majors must complete at least one section of ENGL 498 Honors Proseminar and ENGL 499 Honors Essay. This requirement, in effect, adds 3 hours to either emphasis.

Transfer Credit. Students may apply up to 6 hours of comparable courses at the junior/senior level toward these requirements.

Double Majors. Double majors within the College or dual-degree programs are encouraged. Interested students should consult the director of undergraduate studies at an early opportunity.

Requirements for the Minor. The English minor requires at least 18 hours of junior/senior courses numbered 300 or above, distributed as follows:

- A minimum of 6 hours of British literature, including at least one survey course (ENGL 312 or ENGL 314)
- A minimum of 6 hours of American literature, including at least one survey course (ENGL 316, ENGL 320, or ENGL 322)
- An additional 6 hours of English courses (excluding ENGL 496)

Honors. To be admitted to the English Honors major program, the student must have earned a 3.25 overall grade-point average, and a 3.5 grade-point average in English courses. The student should declare an English major, if enrolled in the College of Liberal Arts and Sciences, or an English concentration, if enrolled in the School of Business or the School of Education.

Literature, Language, and Writing

This program responds to the needs, goals, and responsibilities of KUEC students. It requires at least 27 hours of junior/senior courses (numbered 300 or above). It is offered on KU's Edwards Campus.

Requirements for the B.A. or B.G.S. Major

1. Courses in literature: 12 credit hours with at least 6 hours (two courses) in literature written before 1900.
 - A minimum of 3 hours (one course) in British literature
 - A minimum of 3 hours (one course) in American literature
2. Courses in writing or English language: 9 hours (three courses).
3. Electives: 6 hours (ENGL 496 Internship can be used for elective credit).

English Courses

ENGL 050 Basic Writing Skills (3). U A review of the basic skills of written English, with emphasis on sentence-level grammar. Recommended for all students who score 16 or below on the ACT English test. May be repeated for credit. LEC

For information about the KU Edwards Campus, 12600 Quivira Rd., Overland Park, KS 66213-2402, call (from Lawrence): 864-8400 or (913) 897-8400, Web site: <http://edwardscampus.ku.edu>.

International study opportunities are available in Great Britain. See KU Study Abroad Programs in the Other Programs chapter of this catalog.

ENGL 101 Composition (3). U Instruction and practice in writing in a variety of rhetorical contexts, including academic ones. LEC

ENGL 102 Critical Reading and Writing (3). U Builds upon the instruction in writing of ENGL 101, emphasizing critical thinking through careful, thoughtful reading and writing. Also instructs in the evaluation and use of secondary sources. Prerequisite: Completion of ENGL 101 or its equivalent. LEC

ENGL 105 Freshman Honors English (3). U Study of significant works of world literature. The primary aims are to develop reading and writing skills and to introduce the students to works of literature drawn from a variety of genres and historical periods. For ELIGIBILITY, see section "Placement in English." LEC

ENGL 200 Study Abroad Topics in: _____ (1-6). H This course is designed for the study of special topics in English. Coursework is completed through a KU study abroad program. Available only to KU study abroad participants. May be repeated for credit if content varies. Does NOT fulfill any part of the Freshman-Sophomore requirement. LEC

ENGL 203 Topics in Reading and Writing: _____ (3). H In-depth reading and writing on a significant topic, theme, or genre. Includes a variety of textual types or a range of historical periods. Continued practice in critical reading and writing. May include but will not be limited to writing in literary genres. Prerequisite: Completion of ENGL 101 and ENGL 102, or their equivalent. LEC

ENGL 205 Freshman-Sophomore Honors Proseminar: _____ (3). H Study of a major movement, topic, or theme in literature and culture. The primary aims are to further develop reading and writing skills and to consider significant cultural and artistic issues. For ELIGIBILITY, see section "Placement in English." LEC

ENGL 209 Introduction to Fiction (3). H In-depth reading of and writing about prose fiction with emphasis on critical analysis of a variety of narrative types from different historical periods. Prerequisite: Completion of ENGL 101 and ENGL 102, or their equivalent. LEC

ENGL 210 Introduction to Poetry (3). H In-depth reading of and writing about poetry with emphasis on critical analysis of a variety of forms and techniques used in poems from different historical periods. Prerequisite: Completion of ENGL 101 and ENGL 102, or their equivalent. LEC

ENGL 211 Introduction to the Drama (3). H Study of plays selected to familiarize the student with dramatic masterpieces and with the drama as a literary type. Prerequisite: Completion of ENGL 101 and ENGL 102, or their equivalent. LEC

ENGL 300 The Bible, the Classics, and Modern Literature (3). H An introduction to the nature and function of literature, emphasizing Biblical, Classical, and other major cultural traditions and their influence on British and American literature. Some ancient and modern works will be studied in conjunction. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 308 Interpretation of Literature (3). H Study of selected works of literary theory and of significant problems in literary interpretation and comparative literature methodology, in which basic critical principles and approaches will be systematically examined and applied. Discussion of these approaches will be related to the students' previous study of literature and deepened through presentation of individual papers to the class. (Same as GERM 560, HWC 390, SLAV 394, and SPAN 390.) Prerequisite: Completion of one junior-senior course in English. LEC

ENGL 309 The British Novel (3). HL H Study of five or more significant novels representative of developments in the British novel of the eighteenth, nineteenth, and twentieth centuries. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 310 Legend and Fantasy (3). H An examination of Arthurian legend in its medieval forms and in its modern reinterpretations. A study of folklore motifs and methods of narrative, as well as their modern counterparts. For many students the course functions as an introduction to the literature of the earlier period; for some it offers an opportunity to assimilate further some of our literary traditions. Other legends may be substituted from time to time to accommodate other interests of faculty and students. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 312 Major British Writers to 1800 (3). H Outstanding works of British literature, from the earliest times to the close of the eighteenth century, studied in chronological sequence and with some attention to the characteristics of the various periods of English literary history embraced. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 314 Major British Writers after 1800 (3). H Outstanding works of British literature, from 1800 to the present, studied in chronological sequence and with some attention to the characteristics of the various periods of English literary history embraced. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 315 Summer Institute in Britain (3). H For students enrolled in the annual summer Study Abroad program, an interdisciplinary program conducted with other humanities departments. British literature is studied in the context of visits to relevant sites such as London, the Lake District, and Edinburgh. Prerequisite: Completion of

the freshman-sophomore English requirement; approval for enrollment in the Summer Institute through the Study Abroad office. LEC

ENGL 316 Introduction to Major American Writers (3). HL H Outstanding works of American literature, studied in chronological sequence and with some attention paid to the characteristics of the various periods of American literary history embraced. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 320 American Literature I (3). H From the beginnings to 1865, with emphasis on the major writers and movements. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 322 American Literature II (3). H From 1865 to the present, with emphasis on the major writers and movements. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 323 Twentieth-century Literature and Culture (3). H The study of British and American literature, emphasizing important figures and movements since World War I. On occasion, the study of literature will be enriched with an investigation of other arts, such as music, film, and painting. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 324 Contemporary Authors: _____ (3). H Study of one or more recent British and/or American authors. (Different authors in different semesters.) May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 325 Recent Popular Literature (3). HL H Study of recent best sellers or other works of popular interest. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 326 Introduction to African Literature (3). NW H/W Reading, analysis, and discussion of contemporary fiction, poetry, and drama from sub-Saharan Africa. Brief attention will be paid to historical development and to traditional literature. (Same as AAAS 332.) Prerequisite: ENGL 102 and one 200-level English course or consent of instructor. LEC

ENGL 327 Studies in Twentieth-century Drama: _____ (3). H A survey of major twentieth-century playwrights and theatre groups, to be selected by the instructor. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement (ENGL 211 preferred) or its equivalent. LEC

ENGL 331 Chaucer (3). H Selected readings with emphasis on the Canterbury Tales. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 332 Shakespeare (3). H A study of ten to fourteen of Shakespeare's plays. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 334 Major Authors: _____ (3). H Study of one or two major British and/or American authors. Different authors in different semesters. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 336 Jewish-American Literature and Culture (3). H An examination of Jewish American literature and culture from the 17th century to the present. Materials may include a broad range of literary genres as well as folklore, music, film, and visual art. Prerequisite: Prior completion of the Freshman-Sophomore English requirement or its equivalent. LEC

ENGL 337 Introduction to U.S. Latino/a Literature (3). H An historical survey of literature by U.S. Latina/o writers of Mexican, Puerto Rican, Cuban, Dominican, and Central/South American descent. Various genres, including oral forms such as corridos as well as novels, poetry, essays, and autobiographical writing, will be considered. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 338 Introduction to African-American Literature (3). H An introduction to prominent works of African-American literature from the 18th century to the present as well as to the basic approaches to study and principles of this body of work, including its connection with African sources. Literature will include a wide variety of genres, and course materials may be supplemented by folklore, music, film, and visual arts. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 339 Introduction to Caribbean Literature (3). H Reading, analysis, and discussion of fiction, poetry, and drama from the Caribbean, including a small selection of Spanish, French, and Dutch Antillean works in translation. (Same as AAAS 333.) Prerequisite: ENGL 102 and one 200-level course in English or consent of instructor. LEC

ENGL 340 Topics in U.S. Ethnic Literature: _____ (3). H A study of literature by authors from one or more ethnic groups within the U.S., including but not limited to Asian American, African American, American Indian, Jewish American, Italian American, U.S. Latina/o. Different topics in different semesters. May be repeated for credit as topic changes. LEC

ENGL 351 Fiction Writing I (3). H A study of narrative techniques and practice in the writing of fiction. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 352 Poetry Writing I (3). H A study of prosody and practice in the writing of verse. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. ENGL 210 is recommended. LEC

ENGL 353 Screenwriting I (3). H An introduction to the practice of writing and evaluating scripts for film. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 354 Playwriting I (3). H An introduction to the practice of writing and evaluating scripts for stage. Prerequisite: ENGL 211, Introduction to Drama, or permission of instructor. LEC

ENGL 359 Grammar and Usage for Composition (3). U A course in traditional grammar and principles of formal usage for students who need additional practice or development of skill in composition. Does not count toward the 40-hour maximum allowed for the English major. (This course is offered only through Continuing Education.) Prerequisite: Completion of ENGL 101 and ENGL 102 or their equivalent. LEC

ENGL 360 Advanced Composition: _____ (3). H The principles of effective composition, as applied to a specific topic such as critical writing, expository writing, pre-legal English, book reviewing, etc. May be repeated for credit as topic varies. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 361 Professional Writing: _____ (3). H Principles of writing for specific professional contexts, which might include such areas as business writing, legal writing, and literary or arts reviewing, etc. May be repeated for credit as topic varies. Prerequisite: Completion of ENGL 102 or its equivalent. LEC

ENGL 362 Foundations of Technical Writing (3). H Introduces students to the principles of technical communication. Students learn to organize, develop, write, and revise technical documentation (e.g., proposals, specification documents, technical reports, websites, oral presentations, manuals) for science and business. Includes an introduction to technical-writing software. Prerequisite: ENGL 101 and 102 or completed undergraduate degree. LEC

ENGL 385 The Development of Modern English (3). H An introduction to the history of the English language, with special attention to general structural changes throughout its history, especially changes in vocabulary and meaning, and past influences of other languages upon present usage. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 387 Introduction to the English Language (3). HL H A survey of the English language, its historical development, and its grammatical structure. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 405 The Comic Spirit (3). H (Same as HWC 440.) LEC

ENGL 406 The Tragic Spirit (3). H (Same as HWC 444.) LEC

ENGL 408 The Spirit of Romance (3). H (Same as HWC 452.) LEC

ENGL 433 The Bible as Literature (3). H Selected readings from the Bible, chosen both as literary works in their own right and as cultural influences. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 466 Literature for Children (3). H Wide reading in the great literature of the past and present suitable for children: folktales and epics, mythology, modern fantasy, fiction, poetry. Emphasis on extending the student's background and developing critical judgment. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 479 The Literature of: _____ (1-3). H A study of the literary treatment of a particular aspect of British and/or American society. May be repeated for credit as the topic changes. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 492 The London Review (3). H This class meets one day a week throughout the semester and includes a nine-day visit to London over the spring break period. Students spend the early part of the semester selecting special interests, researching places to visit and study, and exchanging information. After the trip, students compile and publish a journal entitled "The London Review", which is comprised of essays, photos, art work, and other reflections about their experience in London. Prerequisite: Admission to University Honors Program or permission of instructor. LEC

ENGL 495 Directed Study: _____ (1-3). H Work for advanced majors in fields or on topics not covered in course work. May be repeated for a total of up to six hours. Does not satisfy specific course requirements for the English major. May be counted as part of the total junior-senior credit hours required. Prerequisite: Completion of three junior-senior courses in English and consent of instructor. IND

ENGL 496 Internship (1-3). H Practical experience in the use of English skills in supervised academic or professional settings. Credit hours are graded on a satisfactory/unsatisfactory basis, according to the written recommendation provided by the supervisor to the director. Prerequisite: Completion of three junior-senior courses in English and consent of director. FLD

ENGL 498 Honors Proseminar: _____ (3). H Directed reading and participation in small discussion groups, each formed to consider a

specific and limited subject during the semester. Written work will be required, and will be judged on both content and form. The course is part of a departmental program leading to Honors in English. Prerequisite: Admission must be approved by the departmental director of undergraduate studies. LEC

ENGL 499 Honors Essay (3). H Independent study, culminating in a substantial essay prepared under the direction of a member of the Department of English who is a specialist in the area of the student's interest. Prerequisite: Admission must be approved by the departmental director of undergraduate studies. IND

ENGL 506 Science Fiction (3). H The development of science fiction as a literary genre, and as a literature of ideas for a future-oriented society. LEC

ENGL 508 Contemporary Literary Theory (3). H Study of selected works of literary theory and of current issues in literary studies. The course is designed for advanced undergraduates who intend to continue their study of literature in graduate school and for new graduate students who require a grounding in literary theory. According to each instructor's interest, the course may survey contemporary literary theory or may focus on a particular topic (e.g., authorship, canon formation, creativity, metaphor, narrative, rhetoric) or on a theoretical position (e.g., cultural studies, deconstruction, feminism, historicism, Marxism, psychoanalysis). A student may repeat the course with the permission of the appropriate director. Prerequisite: Completion of three junior-senior courses in English (or their equivalent) or graduate standing. LEC

ENGL 520 History of the Book (3). H Brief history of writing materials and handwritten books; history of printed books from the fifteenth century as part of cultural history; technical progress and aesthetic change. (Same as HIST 500.) LEC

ENGL 526 African Literature: _____ (3). NW H An advanced study of a topic, genre, or area of written and/or oral African literature. Emphasis will be placed on the critical analysis of major works, as well as their cultural and historical contexts. The course will also address central critical and theoretical debates in the field. May be repeated for credit as the topic changes. LEC

ENGL 530 Irish Culture (3). H This course explores enduring themes of Irish history, literature, and art from the Iron Age to the present day. Focus may vary with instructor(s). (Same as EURS 512 and HIST 552.) Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 536 Readings in the Holocaust (3). H An examination of Holocaust literature, which may include fiction, nonfiction, poetry, drama, and film. Theoretical concerns may include such issues as memory, trauma, representation, imagination, exile, alienation, silence, the body and emotions, and intergenerational transmission. Prerequisite: Completion of the Freshman-Sophomore English requirement or its equivalent. LEC

ENGL 551 Fiction Writing II (3). H Continuation of ENGL 351. May be repeated for undergraduate credit up to a total of six hours. Prerequisite: ENGL 351 or equivalent. LEC

ENGL 552 Poetry Writing II (3). H Continuation of ENGL 352. May be repeated for undergraduate credit up to a total of six hours. Prerequisite: ENGL 352 or its equivalent. LEC

ENGL 553 Screenwriting II (3). H A continuation of ENGL 353. May be repeated for undergraduate credit up to a total of six hours. Prerequisite: ENGL 353 or its equivalent. LEC

ENGL 554 Playwriting II (3). H A continuation of ENGL 354. May be repeated for undergraduate credit up to a total of six hours. Prerequisite: ENGL 354 or its equivalent. LEC

ENGL 555 Writing Non-fiction (3). H The art and craft of writing for publication in a variety of forms: review, travel essays, specialized articles (e.g., business, science, literature), the personal essay, or the non-fiction book. Prerequisite: Completion of the nine-hour Freshman-Sophomore English requirement and permission of instructor. LEC

ENGL 562 Advanced Technical Writing I (3). H Stresses research methods in technical communication and simulates on-the-job training through live interviews and other forms of research. Students master the relevant software tools and begin to develop a technical-writing portfolio. Prerequisite: ENGL 362. LEC

ENGL 563 Advanced Technical Writing II (3). H Students apply the principles of communicating scientific and technical information to a variety of readers, ranging from the non-technical manager to the expert engineer. Concentration on the varying writing styles for proposals, reports, specifications, journal articles, online forms, and larger documents, based on their audience. The course also teaches effective oral presentations and simulates an internship or on-the-job training. Students develop their technical writing portfolio. Prerequisite: ENGL 562. LEC

ENGL 564 Advanced Technical Editing (3). H Students work with writers in Advanced Technical Writing I and II, learning to work productively with other people's print and online documents. They learn to use specialized vocabulary and such editing tools as proofreaders' marks, style guides, and standard editorial reference material, and practice how to identify and correct common problems. Simulates an

internship or on-the-job training. Students develop a technical-editing portfolio. Prerequisite: ENGL 562. LEC

ENGL 567 Modern Drama: ____ (3). H A study of American, British, or comparative drama from the late nineteenth century to the present. May be repeated for credit as the topic changes. LEC

ENGL 569 The Modern Tradition (3). H An intensive study of the formative backgrounds of the "modern" spirit as it is expressed in imaginative literature. Readings from such influential spokesmen as W. James, Zola, Marx, Darwin, Henry Adams, Kierkegaard, Dostoevsky, Nietzsche, I.A. Richards, T.S. Eliot, Joyce, Auden, Rilke, Croce, Yeats, Malraux, Freud, Jung, D.H. Lawrence, Sartre, Camus, and Gide. LEC

ENGL 570 Topics in American Literature: ____ (1-3). H Different topics in different semesters. May be repeated for credit as the topic changes. LEC

ENGL 571 American Indian Literature: ____ (3). NW H/W The study of a wide range of American Indian literature, from various tribes and in a variety of genres. Satisfies the non-western culture course requirement. May be repeated for credit as the topic changes. LEC

ENGL 572 Women and Literature: ____ (3). H Different topics in different semesters. May be repeated for credit as the topic changes. LEC

ENGL 573 U.S. Latina/o Literature: ____ (3). H A study of the literature written by U.S. Latina/o writers of Mexican, Puerto Rican, Cuban, Dominican, and other Central/South American descent, in a variety of genres. Attention is given to the cultural and historical contexts of the literature and to the specificity of particular U.S. Latina/o groups. May be repeated for credit as the topic changes. LEC

ENGL 574 African-American Literature: ____ (3). H A study of the literature written by African Americans from the pre-Civil War period to the present. Emphasis upon specific historical periods in the development of African American literature as well as on a critical analysis of major autobiographical, poetic, and fictional works. May be repeated for credit as the topic changes. LEC

ENGL 575 Literature of the American South (3). H A survey of fiction, non-fiction, poetry, and drama written by selected writers of the American South from the pre-Civil War period to the present. The course will emphasize the critical analysis of individual texts as well as the cultural and historical context of the works. Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

ENGL 579 American and British Poetry Since 1945 (3). H The study of a large number of British and American poets, primarily those from 1945 to the present. Attention is given both to traditional and to innovative aspects of the poetry. LEC

ENGL 580 Rhetoric and Writing: ____ (3). H A study of selected broad topics in rhetoric and writing, including such topics as the rhetoric of law, the rhetoric of education, persuasion in literature, literacy, and rhetorical genres. May be repeated for credit as the topic changes. LEC

ENGL 587 American English (3). H A study of the structure, history, and varieties of the English language in the United States from the period of colonization to the present. LEC

ENGL 590 Studies in: ____ (1-3). H A study of the major characteristics of a particular genre, mode, or similar topic of concern to the study of literature. The course may deal with several literary periods and cultures as well as with a variety of movements and writers. May be repeated for credit as the topic changes. LEC

ENGL 592 Survey of: ____ (3). A broad view of major works and authors in a particular period, genre, or mode. May be repeated for credit as the topic varies. LEC

ENGL 596 Technical Communication Internship (1-3). H Practical experience in the use of technical-writing or editing skills in supervised professional settings for which the student normally does not receive pay. A 1-3 hour internship requires 40-120 hours of documented on-site work in one semester (40 hours per credit). Credit hours are graded on a satisfactory/unsatisfactory basis, according to a written recommendation from the student's workplace manager, student work logs and self-evaluation, and an oral report. Prerequisite: Advanced Technical Writing I (English 562) and permission of instructor. LEC

ENGL 610 The Literature of England to 1500 (3). H A survey of the literature of medieval England (in translation). LEC

ENGL 620 Renaissance English Literature: ____ (3). H A broad view of literary works written between 1485 and 1660. Surveys may be offered with focus on a particular genre (poetry, drama, or prose), historical period (16th- or 17th-century literature), or group of authors (women writers). May be repeated for credit as topic varies. LEC

ENGL 626 Shakespeare: The Earlier Plays (3). H Intensive study of selected earlier plays, particularly the comedies and histories. LEC

ENGL 627 Shakespeare: The Later Plays (3). H Intensive study of selected later plays, with emphasis on the great tragedies and romances. LEC

ENGL 633 Milton (3). H A close reading of *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, and the minor poems, with illustrative selections of prose. LEC

ENGL 640 British Literature of the Restoration and Early Eighteenth Century (3). H Emphasis on the principal writers of the period on Dryden through the early Alexander Pope. LEC

ENGL 641 British Literature of the Mid- to Later Eighteenth Century (3). H Emphasis on the principal writers from the later Alexander Pope through the Age of Johnson. LEC

ENGL 646 British Drama of the Restoration and Eighteenth Century (3). H A survey of British drama from approximately 1642 to 1800, including the comedy of wit and heroic tragedy in the Restoration and sentimental, neoclassical, and romantic trends in the comedy and tragedy of the eighteenth century. LEC

ENGL 648 The Eighteenth-century British Novel (3). H A study of the novel as a genre in Britain during the "long eighteenth century" (approximately 1642-1820). LEC

ENGL 650 Poetry of the Romantic Period (3). H Close reading of major poems by Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats, leading to a general discussion of English literature between about 1790 and 1830. LEC

ENGL 655 Poetry of the Victorian Period (3). H A survey of selected poems by Tennyson, the Brontes, Browning, FitzGerald, Arnold, Morris, Patmore, Swinburne, and Rossetti, leading to some general views of British verse in the period from 1830 to 1890. LEC

ENGL 658 The Nineteenth-century British Novel (3). H A study of the novel as a genre in Britain during the nineteenth century. LEC

ENGL 660 British Poetry of the Twentieth Century (3). H The theories and poems of such major figures as Hopkins, Bridges, Hardy, Yeats, Auden, and Thomas. LEC

ENGL 664 The Age of Yeats and Joyce (3). H Study of the Irish Literary Renaissance, 1880-1920, with emphasis on major poems, plays, and novels by several authors. LEC

ENGL 668 The Modern British Novel (3). H A study of Conrad, Lawrence, Woolf, Joyce, and other major British authors from 1900 to the present. LEC

ENGL 677 The American Novel in the Nineteenth Century (3). H A study of the novels (and possibly short fiction) of such authors as Brown, Cooper, Hawthorne, Melville, Twain, Howells, James, Norris, and Stowe. Emphasis on a critical analysis of individual works, the historical development of the novel, and the critical theory of each author. (Same as AMS 677.) LEC

ENGL 678 The Modern American Novel (3). H A study of representative American novelists of the twentieth century. Emphasis on a critical analysis of individual novels as well as on the historical development of the modern novel. (Same as AMS 678.) LEC

ENGL 679 American Poetry of the Twentieth Century (3). H A study of American poetry from E.A. Robinson and Robert Frost to the present. LEC

ENGL 707 Literary Criticism to 1800 (3).

ENGL 708 Literary Criticism after 1800 (3).

ENGL 709 Critical Theory: Problems and Principles: ____ (3).

ENGL 710 Introduction to Old English (3).

ENGL 712 Beowulf (3).

ENGL 714 Middle English Literature (3).

ENGL 720 Chaucer: ____ (3).

ENGL 751 Fiction Writing III (1-3).

ENGL 752 Poetry Writing III (1-3).

ENGL 753 Writers Workshop (1-3).

ENGL 767 Studies in Modern Drama: ____ (3).

ENGL 770 Studies in Life Writing: ____ (3).

ENGL 774 Topics in Literatures of Africa and the African Diaspora: ____ (3).

ENGL 780 Composition Studies (3).

ENGL 781 Criticism and the Teaching of Literature (3).

ENGL 785 History of the English Language (3).

ENGL 787 Modern English Grammar (3).

ENGL 790 Studies in: ____ (3).

Entomology

Students interested in entomology should pursue the B.A. in biology, selecting BIOL 500 Biology of Insects as an elective. Select additional courses in consultation with an entomology adviser. See Biological Sciences.

These courses are recommended for students interested in entomology but not majoring in biology:

BIOL 120 Insects in Your World

BIOL 500 Biology of Insects

BIOL 505 Social Insects

For those in microbiology and fields related to medicine:

BIOL 616 Medical Entomology

Contact an environmental studies adviser for current major requirements, or visit the Web site: www.ku.edu/~kuesp.

The 2006 Fiske Guide to Colleges considers environmental studies at KU a top-ranked program.

CLAS departments are online at www.clas.ku.edu/us/departments.shtml.

Environmental Biology

Students may concentrate in environmental biology by seeking a B.S. or B.A. degree in environmental studies or a B.S. in biology. See Biological Sciences; see Environmental Studies.

Environmental Studies

Director: Bill Woods

Isabel Anheier, env-studies@ku.edu

Snow Hall, 1460 Jayhawk Blvd., Room 415

Lawrence, KS 66045-7523

(785) 864-8902, www.ku.edu/~kuesp

Degrees offered: B.A., B.G.S., B.S.

This interdisciplinary major gives students a fundamental knowledge of the human environment, the dimensions of human impact on the environment, and holistic approaches to solving problems resulting from this impact. The human environment includes all facets of human activity affecting the environment, such as philosophical and ethical issues, environmental resource use and misuse, population biology, and the chemistry of the atmosphere. The goals of the program are (1) to provide a holistic view of the environment, one in which the synergistic nature of perturbations, natural and anthropogenic, can be understood, and (2) to provide the technical and evaluative skills for active participation in an environmental career.

The environment is the central theme around which a liberal arts education is focused. The program includes general B.A., B.G.S., and B.S. degree requirements, core courses required of all majors, and two options under each degree. Options A and C focus on environmental science. Options B and D concentrate in policy and land-use issues.

Students may declare an interest in environmental studies or a major in environmental studies by filling out the appropriate forms. CLAS Interest Code and Major Declaration Forms are available from College Student Academic Services, 109 Strong Hall, or in the environmental studies office. Students are strongly encouraged to declare an environmental studies major as soon as possible.

Majors

B.A. and B.G.S. General Requirements. With the exception of the following, please refer to the B.A. and B.G.S. requirements in the College of Liberal Arts and Sciences: General Requirements chapter:

Mathematics (3-8 hours). MATH 115 or MATH 121 Calculus is required for Option A.

Laboratory Science. BIOL 150 or the required course in chemistry automatically meets this requirement for B.A. and B.G.S. degrees.

Principal Courses. ECON 142 is required for Option B.

B.A. and B.G.S. Core Courses (30 hours)

BIOL 150 Principles of Molecular and Cellular Biology	4
BIOL 152 Principles of Organismal Biology	4
EVRN 148 Principles of Environmental Studies	3
BIOL 414 Principles of Ecology	3
GEOG 351 Environmental Geology	3
EVRN 320 Environmental Policy	3
EVRN 332 Environmental Law	3
The next two courses must be taken in the final year of degree work:	
EVRN 460 Field Ecology	4
EVRN 615 Environmental Impact Assessment	3

B.A. and B.G.S. Options. Students choose either the environmental science or the environmental policy option for the B.A. and B.G.S. degrees.

Option A: Environmental Science

Required Supporting Courses (19-21 hours)

CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 622 Fundamentals of Organic Chemistry (3) or	
CHEM 624 Organic Chemistry I (3)	3
MATH 115 or MATH 121 Calculus I	3-5
One of the following statistics courses:	3
BIOL 570 Introduction to Biostatistics (3) or	
MATH 365 Elementary Statistics (3)	

Electives (minimum of 15 hours). Written approval of electives must be obtained from an adviser *before* taking the course. A list of possible electives can be obtained from the environmental studies office.

Elective Themes: Applied Ecology and Field Biology
Environmental Impact Analysis
Environmental Health
Environmental Geology and Meteorology
Water Resources

Option B: Environmental Policy

Required Supporting Courses (20-21 hours)

CHEM 125 College Chemistry	5
ECON 142 Principles of Microeconomics	3
GEOG 104 Principles of Physical Geography	3
UBPL 538 Environmental Planning Techniques	3
One of the following courses approved by your adviser:	3
ANTH 695/GEOG 670 Cultural Ecology(3)	
ECON 610 Resource Economics and Environmental Policy (3)	
EVRN 304 Environmental Conservation (3)	
EVRN 347 Environmental History of North America (3)	
EVRN 385 Environmental Sociology (3)	
EVRN 528 Environmental Justice and Public Policy (3)	
EVRN 553 Comparative Environmental Politics (3)	
EVRN 620 Environmental Politics and Policy (3)	
POLS 621 Public Policy Analysis(3)	
POLS 622 Government and the Economy (3)	
SOC 531 Global Social Change (3)	
POLS 306 Political Science Methods of Inquiry (3)	
One of the following statistics courses:	3-4
BIOL 570 Introduction to Biostatistics (3) or	
GEOG 316 Methods of Analyzing Geographical Data (4) or	
MATH 365 Elementary Statistics (3)	

Electives (minimum of 15 hours). Written approval of electives must be obtained from an adviser *before* taking the course. A list of possible electives can be obtained from the environmental studies office.

Elective Themes: Environmental Planning and Land Resources
Energy Resources

B.S. General College Requirements (33-37 hours)

English (9 hours). ENGL 101, ENGL 102, and ENGL 362 Foundations of Technical Writing. (If ENGL 362 is not available, any 200-level English writing course fulfills the requirement.)

Oral Communication/Logic (3 hours). Satisfaction of the College B.A. requirement.

Western Civilization (6 hours). Satisfaction of the B.A. requirement.

Principal Course Distribution Requirement (15-21 hours)

ECON 142 Principles of Microeconomics	3
HIST 347 Environmental History of North America	3
Three additional courses from the principal course lists of social sciences and humanities and/or courses in the same foreign language	9-15

B.S. Core Courses (27 hours)

BIOL 150 Principles of Molecular and Cellular Biology	4
BIOL 152 Principles of Organismal Biology	4
EVRN 148 Principles of Environmental Studies	3
BIOL 414 Principles of Ecology	3
EVRN 320 Environmental Policy	3
EVRN 332 Environmental Law	3
The next two courses must be taken in the final year of degree work:	
EVRN 460 Field Ecology	4
EVRN 615 Environmental Impact Assessment	3

B.S. Options. Students choose either the environmental science or the land-use option for the B.S.

Option C: Environmental Science

Required Supporting Courses (21-25 hours)

BIOL 660 Limnology and BIOL 662 Aquatic Ecology Laboratory ..	4
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
CHEM 622/CHEM 625 Fundamentals of Organic Chemistry	
and Laboratory	5
MATH 115 or MATH 121 Calculus I	3-5
MATH 116 or MATH 122 Calculus II	3-5

Required Science Courses (21 hours)

ATMO 105 Introductory Meteorology	5
BIOL 570 Introduction to Biostatistics	3
BIOL 660 Limnology and BIOL 662 Aquatic Ecology Laboratory ..	4
GEOG 535 Introduction to Soil Geography	4
GEOG 101 Introduction to Geology	3

GEOL 103 Geology Fundamentals Laboratory 2
Electives (minimum of 12 hours). Written approval of electives must be obtained from an adviser *before* taking the course. A list of possible electives can be obtained from the department office.

Elective Themes: Applied Ecology and Field Biology
 Environmental Impact Analysis
 Environmental Health
 Environmental Geology and Meteorology
 Water Resources

Option D: Land Use

Required Supporting Courses (21-25 hours)
 CHEM 184 and CHEM 188 Foundations of Chemistry I and II ... 10
 GEOG 104/GEOG 105 Principles of Physical Geography and
 Laboratory 5
 MATH 115 or MATH 121 Calculus I 3-5
 MATH 116 or MATH 122 Calculus II 3-5

Required Social Sciences Courses (21 hours)

ECON 520 Microeconomics 3
 ECON 610 Resource Economics and Environmental Policy 3
 GEOG 316 Methods of Analyzing Geographical Data 4
 GEOG 358 Principles of Geographic Information Systems 4
 GEOG 535 Introduction to Soil Geography 4
 UBPL 538 Environmental Planning Techniques 3

Electives (minimum of 12 hours). *Written approval of electives* must be obtained from an adviser *before* taking the course. A list of possible electives can be obtained from the department office.

Elective Themes: Environmental Planning and Land Resources
 Energy Resources

Electives. Electives provide the opportunity to specialize. An elective approval form must be signed by an environmental studies adviser *before* taking an elective. Forms may be obtained from the environmental studies office. Except for study abroad, a maximum of 6 hours of nonclassroom course work may be counted toward electives (e.g., internship or research).

Exceptions and Substitutions. All substitutions must be approved by a student's environmental studies adviser. A student must submit a requirement substitution form to the environmental studies adviser. Forms can be obtained from the environmental studies office.

Internships. Internships allow majors to develop new skills and test their abilities and educational backgrounds. Students can assess their career objectives in professional settings. Internships are done in city, county, state, and federal agencies and in environmental organizations and private companies or agencies. Students are encouraged to participate at the end of the sophomore or junior year. Completion of an internship by the end of the junior year provides an opportunity to make career changes and final elective selections before the senior year. It is not possible to participate in an internship after graduation. The applicant must have a grade-point average of 2.5 or above, must have completed 12 hours of core or required environmental studies courses (excluding required supporting courses), and must have a suitable internship opportunity. A maximum of 3 hours may be applied to the 12 to 15 hours of required electives.

Honors. To graduate with honors in environmental studies, a student must maintain a minimum overall grade-point average of 3.25 and 3.5 in the major. The student also must complete an individual honors project. This project normally represents two semesters of original work. Check with the Environmental Studies Program for course enrollment requirements.

● **Environmental Studies Courses**

EVNR 103 Environment and History (3). H Nature is our oldest home and newest challenge. This course surveys the environmental history of the earth from the extinction of the dinosaurs to the present with a focus on the changing ecological role of humans. It analyzes cases of ecological stability, compares cultural attitudes toward nature, and asks why this ancient relationship seems so troubled. (Same as HIST 103.) LEC

EVNR 148 Principles of Environmental Studies (3). NB N This course presents an overview of our understanding of environmental processes and environmental issues. Topics include scientific principles, population and resource issues, pollution and global change, and land use and management. This course gives students a rigorous understanding of interactions between humans and their environment, and provides students with a scientific basis for making informed environmental decisions. (Same as GEOG 148.) LEC

EVNR 149 Principles of Environmental Studies, Honors (3). NB N This course presents an overview of our understanding of environmental processes and environmental issues. Topics include scientific principles, population and resource issues, pollution and global change, and land use and management. This course gives students a rigorous understanding of interactions between humans and their environment, and provides students with a scientific basis for making informed environmental decisions. An honors section of EVNR 148, designed for superior students. (Same as GEOG 149 (Honors.)) Prerequisite: Membership in the University Honors Program or approval of instructor required. LEC

EVNR 200 Study Abroad Topics In: _____ (1-6). S This course is designed for the study of special topics in Environmental Studies. Coursework must be arranged through the Office of Study Abroad. May be repeated for credit if content varies. LEC

EVNR 304 Environmental Conservation (3). NE N A survey of current methods of describing and modeling the function, structure, and productivity of natural and anthropogenically modified earth resource systems, along with a discussion of contemporary views of what constitutes a natural landscape. Fundamental natural science principles about the interplay among lithospheric, atmospheric, hydrospheric, and biospheric components of earth systems are emphasized. Uses of natural resources, including fossil fuels, minerals, and water, are described with attention to the earth's total energy budget. Human activities that affect preservation, conservation, and multiple uses of earth regions receive attention. Systems under stress through population and other contemporary forces serve as examples. (Same as GEOG 304.) LEC

EVNR 320 Environmental Policy (3). N An historical and analytical study of the formulation, implementation, and consequences of environmental policy in the United States. Attention will be directed at relevant interest groups, issues specific to both rural and urban populations, relationships between national policies and international organizations concerned with environmental problems. Prerequisite: EVNR 148 and EVNR 332. LEC

EVNR 332 Environmental Law (3). U An introduction to how the American legal process improves, transforms, and damages the natural environment. Emphasizes and compares shifting responsibilities of legal forces and institutions: judges and litigants, legislators and statutes, agencies and administrations, and citizens and regulated entities. Prerequisite: EVNR 148. LEC

EVNR 347 Environmental History of North America (3). H A survey of changes in the landscape and in people's perceptions of the natural world from 1500 to present. Topics include agroecology, water and energy, the impact of capitalism, industrialism, urbanization, and such technologies as the automobile and the origins of conservation. (Same as HIST 347.) LEC

EVNR 385 Environmental Sociology (3). S This course invites students to study society and its impact on the environment. Environmental problems are social problems. This course will address such items as social paradigms, theories, inequalities, movements, and research. (Same as SOC 385.) LEC

EVNR 420 Topics in Environmental Studies: _____ (1-3). N Courses on special topics in Environmental Science and/or Policy. These courses may be lecture, discussions, or readings. Students may enroll in more than one interest group but may enroll in a given interest group only once. LEC

EVNR 425 Global Water Scarcity (3). S Though natural factors are introduced, this course focuses primarily on the human factors that contribute to global water scarcity. This course also discusses the consequences of water scarcity and its effects on society. Prerequisite: EVNR 148 or permission of instructor. LEC

EVNR 460 Field Ecology (4). N Provides practical experience in the characterization of a diversity of ecosystem types; lakes, streams, forests, and prairies. This course is writing intensive, and designed for Environmental Studies majors. Prerequisite: Enrolled in final year of degree, EVNR 148, CHEM 125 or CHEM 184, a statistics course, and BIOL 414, or consent of instructor. Restricted to declared Environmental Studies majors. FLD

EVNR 490 Internship in Environmental Studies (1-8). N Supervised practical experience in a specific environmental area of interest. The adviser will schedule regular meetings to evaluate progress and provide assistance. A written summary of the internship experience and evaluation will be prepared independently by the student, a representative of the cooperating agency, and the adviser. Total credit may not exceed 8 hours. Prerequisite: Junior standing and consent of program director. Restricted to declared Environmental Studies majors. Restricted to students with a 2.5 overall GPA or above. FLD

EVNR 528 Environmental Justice and Public Policy (3). S This course provides an overview of environmental justice, both as a social movement and as a public policy initiative. Environmental justice examines the distribution of environmental externalities across different socio-

“Memo to out-of-staters: Lawrence is not flat as a pancake and does not resemble Dorothy’s home in ‘The Wizard of Oz.’ The University of Kansas has a gorgeous campus and is one of the premier college bargains in the United States.”
—2006 Fiske Guide to Colleges

KU students can access course information through Enroll & Pay, <https://sa.ku.edu>.

economic and racial groups. We will discuss several different public policy areas that have been impacted by the environmental justice movement: hazardous waste facility siting, urban redevelopment and Brownfields, transportation policy, and Native American sovereignty. We will also touch upon international environmental policy in an environmental justice context. Throughout the course we will evaluate empirical issues in studying environmental justice. (Same as POLS 528.) Prerequisite: POLS 306, or a statistics class, or consent of instructor. LEC

EVNR 542 Ethnobotany (3). S Course will involve lectures and discussion of Ethnobotany - the mutual relationship between plants and traditional people. Research from both the field of anthropology and botany will be incorporated in this course to study the cultural significance of plant materials. The course has 7 main areas of focus: 1) Methods in Ethnobotanical Study; 2) Traditional Botanical Knowledge - knowledge systems, ethnolinguistics; 3) Edible and Medicinal Plants of North America (focus on North American Indians); 4) Traditional Phytochemistry - how traditional people made use of chemical substances; 5) Understanding Traditional Plant Use and Management; 6) Applied Ethnobotany; 7) Ethnobotany in Sustainable Development (focus on medicinal plant exploration by pharmaceutical companies in Latin America). (Same as ANTH 582.) Prerequisite: ANTH 104, ANTH 108, EVNR 148, or consent of instructor. LEC

EVNR 550 Environmental Economics (3). U This course provides an overview of the theory and empirical practice of economic analysis as it applies to environmental issues. Topics include externalities (a type of market failure), the valuation of nonmarket goods, the practice of benefit-cost analysis, and the efficiency and cost effectiveness of pollution control policies. Most importantly, the course permits students to perform economic field research, using state-of-the-art techniques in a manner accessible to undergraduate students. (Same as ECON 550.) Prerequisite: ECON 104, ECON 140, or ECON 142. LEC

EVNR 553 Comparative Environmental Politics (3). S This course compares environmental politics and policies across a number of countries, including those in North America, Western Europe, East Asia, and Latin America. (Same as POLS 553.) LEC

EVNR 562 United States Environmental History in the Twentieth Century (3). H Americans dramatically changed the natural world between 1900 and 2000. This course asks how transformed environments shaped the American experience during a century of technological innovation, democratic renewal, economic expansion, global conflict, and cultural pluralism. Topics include food and markets, energy and transportation, law and politics, protest and resistance, suburbanization, and environmentalism's fate in a global information era. (Same as HIST 562.) LEC

EVNR 563 U.S. Environmental Thought in the Twentieth Century (3). H Explores both leading and dissenting ideas that Americans have had about the natural world since 1900. Broad chronological periods are explored in some depth, including the Progressive Era, New Deal, Cold War, the Sixties, and the Reagan Eighties. The course uses articles and books, as well as visual and aural forms of communication. Commercial speech, as well as scholarly and literary works, are considered. (Same as HIST 563.) Prerequisite: EVNR 148 or HIST 129, or by permission of instructor. LEC

EVNR 611 Water Quality, Land Use, and Watershed Ecosystems (3). N Water quality issues are integrated with land use planning and the development of watershed management strategies. Interrelationships among the hydrologic cycle, atmospheric deposition, nutrient transformations and pesticide use are examined in regards to stream, lake, and groundwater quality. Prerequisite: CHEM 125 or CHEM 184 and BIOL 414, or consent of instructor. LEC

EVNR 615 Environmental Impact Assessment (3). N A study of the design, conduct, and management of comprehensive environmental impact assessments, emphasizing the scoping process, physical, and social impact assessment and the interdisciplinary study of environmental problems. Prerequisite: Enrolled in final year of degree, EVNR 148, BIOL 414, UBPL 332, GEOL 351, CHEM 125 or CHEM 184, or permission of instructor. Restricted to declared Environmental Studies majors. LEC

EVNR 620 Environmental Politics and Policy (3). S Analysis of environmental politics and the formulation and implementation of environmental policy. Examines the history and development of environmental politics as well as current trends. Themes include interest groups, business interests, political institutions, and specific environmental policy issues. (Same as POLS 624.) LEC

EVNR 624 Independent Study (1-9). N A research course, in any of the fields of environmental studies, consisting of either experimental research, original policy analysis, or the preparation of an extensive paper based on library investigation. Project topic to be agreed upon in advance with supervising faculty member. Prerequisite: Consent of instructor. IND

EVNR 625 Honors Research in Environmental Studies (3). N A course giving eligible majors the opportunity to earn Departmental Honors by engaging in an intensive program of study leading to an original piece of research. Prerequisite: Senior standing, approval of the Environmental Studies Program, the Honors Project Director, and an overall 3.25 cumulative grade point average during the semester of enrollment. Restricted to declared Environmental Studies majors. IND

EVNR 656 Ecosystem Ecology (3). N An introduction to the patterns and processes that affect terrestrial ecosystems. Emphasis is placed on understanding nutrient cycles (e.g., carbon nitrogen phosphorous), hydrologic cycles, and patterns of net primary productivity. The role of both natural and anthropogenic disturbances in structuring terrestrial ecosystems is examined in the context of global land-use patterns. Discussion of current research literature will be expected. (Same as BIOL 656.) Prerequisite: BIOL 414 and CHEM 184. LEC

European Studies

Director: Diane Fourny, dfourny@ku.edu
Bailey Hall, 1440 Jayhawk Blvd., Room 308
Lawrence, KS 66045-7574
(785) 864-9070, www.ku.edu/~ces

Undergraduate Adviser: Ronald Francisco, ronfran@ku.edu, Blake Hall, 1541 Lilac Lane, Room 504,
Lawrence, KS 66044-3177, (785) 864-9023

Undergraduate Adviser: Leonie Marx, marx@ku.edu
Wescoe Hall, 1445 Jayhawk Blvd., Room 2076,
Lawrence, KS 66045-7590, (785) 864-4803

Degree offered: Bachelor's (co-major only)

The degree in European studies is available only as a co-major in conjunction with a bachelor's degree major in another academic discipline. The co-major also can be combined with a bachelor's degree in a professional school, such as business or journalism.

Co-major

First- and Second-year Preparation. During their first and second years, students are strongly encouraged to enroll in HIST 115 plus one additional course from the list below:

HIST 115 French Revolution to the Present: Europe 1798-Present .. 3
Choose one of the following: 3
ECON 104 Introductory Economics
ECON 144 Introduction to Macroeconomics
GEOG 100 World Regional Geography
GEOG 102 Principles of Human Geography
POLS 150/POLS 151 Introduction to Comparative Politics
POLS 170/POLS 171 Introduction to International Politics
H A 100 Introduction to Art History
PHIL 180 Introduction to Social and Political Philosophy

Note: Enrollment in the above courses counts toward College principal course distribution requirements in the humanities and social sciences.

Students also should begin their foreign language study in a western European language other than English or Russian. Participation in a summer study abroad language institute is highly recommended. Contact a European Studies adviser early to plan a program.

Requirements for Admission to the Co-major.

- (1) Second-semester sophomore or junior standing.
- (2) Declared major in a department or admission to a professional school.

Requirements for the Co-major. Students must complete the minimum requirements outlined in parts 1 through 5 below. Students interested in earning honors in European studies must complete parts 1 through 6 below.

1. Foreign Language Skills. Students take *one semester beyond* the College general education foreign language requirement (completion of a fourth-semester course) in a modern western European language (Danish, Dutch, French, German, Hungarian, Italian, Portuguese, Polish, Spanish, or Swedish). Some examples of a fifth-semester course:

Dutch: DTCH 453	Italian: ITAL 315
French: FREN 300	Portuguese: PORT 340
German: GERM 344	Spanish: SPAN 324

Fifth-semester western European language course 3

2. Foundational Course. All students enroll in *EURS 500 Seminar in European Studies*. This interdisciplinary seminar meets once or twice a week and covers topics in the culture, history, politics, and economics of western Europe, including an overview of the history

and development of the European Union. The course is normally taught fall semester only.

EURS 500 Seminar in European Studies 3

Note: EURS 500 may be replaced by EURS 503 Europe Today, taught only during summer through the Summer Institute in European Studies.

3. Upper-division General European Studies Courses. Students enroll in *three* of the following courses (two must be from different departments): 9

- ARCH 642 History of Architecture III: Modern
- ARCH 665 History of Urban Design
- ECON 535 Economic History of Europe
- ECON 536 Economic Issues in Europe (same as EURS 536)
- ECON 563 Current Economic Issues of East Europe
- EURS 302 European Culture & Society: 1945 to Present: Decline of Modernity & Rise of Postmodernism
- EURS 329 History of War & Peace (same as HIST 329)
- EURS 503 Europe Today
- EURS 505 Studies in Exile Literature
- EURS 506 Culture & Politics of the Cold War in Western Europe
- EURS 507 Research in European Collections
- EURS 508 Politics & Economics of Cultural Production in Western Europe
- EURS 509 Introduction to the Study of Southern European Societies
- EURS 511 Topics in European Studies: _____ (when covering two or more countries)
- EURS 604 The European Union
- HA 533 European Art 1789-1848: Gender & Revolution
- HA 564 European Art, 1900-1945
- HA 565 Art since 1945
- HIST 334 The Great War: The History of World War I
- HIST 340 The History of the Second World War
- HIST 342 The Rise & Fall of Communist Nations Since 1917
- HIST 343 The Holocaust in History
- HIST 380 Revolutionary Europe: The People in Arms
- HIST 517 Foundations of European Law
- HIST 518 Economic & Social History of Europe, 1750-1914
- HIST 526 Nineteenth-century Europe, 1789-1914
- HIST 527 Recent European History, 1870 to the Present
- HIST 528 Economic History of Europe (same as ECON 535)
- HIST 529 Intellectual History of 19th-century Europe
- HIST 533 The History of Women & the Family in Europe, from 1500 to the Present
- HWC 430 European Civilization in World Context: _____ (same as EURS 430)
- HWC 550 Classics of Peace Literature
- IBUS 305 Business, Culture, Society: Western Europe (same as EURS 401)
- IBUS 410 Introduction to International Business
- PHIL 560 Nineteenth-century Philosophy
- PHIL 592 Contemporary Continental Philosophy
- POLS 652 Politics in Western Europe
- POLS 655 Politics of East-Central Europe
- POLS 663 Protest & Revolution
- POLS 669 Topics in Comparative Politics: _____ (when covering Europe, among other regions)
- POLS 681 Comparative Foreign Policy
- POLS 689 Topics in International Relations: _____ (when covering Europe, among other regions)
- SOC 500 Sociological Theory
- SOC 530 Industrial Revolution & Capitalist Development
- SOC 780 Advanced Topics in Sociology: _____ (when covering comparative social policy between the United States & Europe)
- TH&F 383 History of the International Sound Film
- TH&F 526 Theatre in Western Civilization from 1642

4. Upper-division National or Regional European Studies Courses. Students enroll in *two country- or region-specific courses*. These must cover *two different countries or regions*. Some examples are given below; however, students are advised to meet with a co-major adviser each semester to obtain a complete listing of courses 6

- ARCH 390 Architectural Study Abroad (France, Italy, Germany, or United Kingdom)
- ARCH 632 Contemporary French Architecture
- ENGL 309 The British Novel
- ENGL 314 Major British Writers after 1800
- ENGL 315 Summer Institute in Britain
- ENGL 324 Contemporary Authors: _____ (when British or Irish)
- ENGL 327 Study in Twentieth-century Drama: _____ (when at least 50 percent British/Irish)
- ENGL 332 Shakespeare
- ENGL 334 Major Authors: _____ (when British or Irish)
- ENGL 479 The Literature of: _____ (when British or Irish)
- ENGL 530 Irish Culture (same as EURS 512 and HIST 552)
- EURS 509 Introduction to the Study of Southern European Societies
- EURS 510 Scandinavian Life & Civilization
- EURS 511 Topics in European Studies: _____ (when country-specific)
- EURS 512 Irish Culture (same as ENGL 530 and HIST 552)
- FREN 326 Introduction to French Literature

European studies sponsors a Summer Institute in European Studies in Brussels and Paris, focusing on the social, political, and economic dimensions of the European Union.

Twenty-four KU students have become Andrew W. Mellon Fellows since the program began in 1982.

- FREN 335 France & the French (taught in English)
- FREN 470 French Literature of the Twentieth Century
- GERM 420 German Literature in English Translation: _____
- GERM 424 German Cinema in Context (taught in English)
- GERM 462 The German Business Environment
- HA 504 Spanish Art
- HA 530 Renaissance Art in Italy: The 15th Century
- H 534 Art in France 1848-1900: Modernisms
- HA 535 Impressionism
- HA 550 The Arts of the British Isles
- HA 600 Biography of a City: (European city only)
- HIST 341 Hitler & Nazi Germany
- HIST 344 The Great Irish Famine
- HIST 525 Modern France: From Napoleon to de Gaulle
- HIST 534 Modern German History—1648-1848
- HIST 536 Modern German History—1848 to the Present
- HIST 537 France from the Renaissance to the French Revolution
- HIST 548 British History, 1832 to the Present
- HIST 549 Social & Economic History of Britain from 1700
- HIST 550 The British Empire
- HIST 551 Spain & its Empire, 1450-1700
- HIST 552 Irish Culture (same as ENGL 530 and EURS 512)
- HIST 553 Muslims, Christians, & Jews in Medieval Iberia
- HIST 555 Aspects of British Political Thought
- HWC 520 Literature in Translation: (when a European literature)
- ITAL 301/302 Introduction to Italian Literature I & II
- ITAL 335/336 Italy & the Italians I & II (taught in English)
- POLS 655 Politics of East-Central Europe
- SCAN 570 Scandinavian Life & Civilization
- SPAN 448 Spanish Language & Culture for Business
- SPAN 453 Twentieth-century Spanish Studies: _____
- SPAN 470 Studies in Spanish Culture & Civilization: _____
- SPAN 550 Colloquium on Spanish Film

Note: This list is not exhaustive. Virtually all upper-division European foreign language, literature, culture, and other humanities courses meet this requirement, including those dealing with British or Irish topics.

5. Final Senior Hours. In the senior year, students complete one of the following options:

- Option A.* EURS 501 Senior Thesis in European Studies 3
A semester-long, independent research project under the supervision of a faculty thesis director.
- Option B.* Two additional upper-division European studies courses .. 6
These courses can be general European or country-specific electives chosen from the course lists above.

6. Honors (Optional). Students desiring to earn honors in European studies must choose Option A above, plus enroll in an additional 3 hours of EURS 502 Senior Honors Thesis in European Studies, open only to students with a co-major grade-point average of 3.5 or above and a cumulative grade-point average of 3.25 or above. This two-semester thesis results in a lengthier project under the supervision of a three-member faculty committee (see detailed description below).

- EURS 502 Senior Honors Thesis in European Studies 3

Summary of Total Hours to Complete a European Studies Co-Major

- European Studies Co-Major (Option A: Senior Thesis) 24
- European Studies Co-Major (Option B: Nonthesis) 27
- European Studies Co-Major with Honors 27

Additional Regulations. No more than 9 credit hours may be shared between the 24-hour European studies co-major and another major. No more than 12 credit hours may be shared between a 27-hour European studies co-major and another major. Students completing three majors may share an additional 3 hours between the European Studies co-major and the third major. Courses taken during a study abroad program in Europe may be used to fulfill co-major requirements. Students should consult an adviser in European studies about study abroad credit before their program departure.

Requirements for the Minor. The minor requires 18 hours, as follows:

- One European language or literature course beyond the fourth-semester language course in the same language (see full description above under Foreign Language Skills) 3
- EURS 500 Seminar in European Studies 3
- One modern European history course (HIST 115 or HIST 527) 3
- *Three of the four following options: 9
 - One approved European politics course
 - One approved European economics or business course
 - One approved general European culture or history course
 - One approved national or regional European course

*Consult the course lists above under Upper-division General European Studies Courses and Upper-division National or Regional European Studies Courses for courses to fulfill these options.

Students should consult an adviser in European studies to determine approved courses. No more than one course may be counted both in the minor and in another degree or minor program.

Honors. Honors in European studies is open to co-majors who have earned, both at the time of entry into the program and at graduation, overall grade-point averages of 3.25 or higher and of 3.5 or higher in European studies. A student must complete all co-major requirements, including EURS 502 Senior Honors Thesis, with a grade of A. The senior honors thesis affords exceptional students the opportunity to work closely with an individual faculty member on a specific research project over an extended period of time, usually two semesters. The senior honors thesis may be combined with EURS 501 Senior Thesis, substantially increasing the length and scope of the final thesis, or the senior honors thesis may be a separate extension of the senior thesis.

A student in EURS 502 must defend the thesis in a one-hour oral examination with faculty. The examination committee is composed of three faculty members, one of whom must be the thesis director. The student selects the committee members in consultation with the thesis director. Students should consult a program adviser early in the junior year.

Study Abroad

The program strongly encourages students to enroll in one of KU's many study abroad programs in Europe. European studies directs its own summer institute in four major European capitals (Brussels, Belgium; Paris, France; Budapest, Hungary; and Vienna, Austria) where students focus on the historical, political, social, and economic dimensions of the European Union. European studies also participates in the Humanities and Western Civilization semester abroad program in Paris and Florence. Foreign language summer institutes offering upper-division courses in language or literature study also may qualify for European studies co-major or minor credit. Contact a program adviser or the Office of Study Abroad, 108 Lippincott Hall, (785) 864-3742, www.studyabroad.ku.edu.

● European Studies Courses

EURS 302 European Culture and Society 1945 to Present: Decline of Modernity and Rise of Postmodernism (3). HT H The course provides historical, cultural, and political overviews of Europe since 1945 with particular emphasis on the contribution of French and Italian culture and society. The course emphasizes Europe's contribution to Western intellectual thought, social movements, arts and literature, and global society. (Same as HWC 302.) LEC

EURS 329 History of War and Peace (3). HL H A study of the changing nature of warfare and the struggle to bring about peace. Topics include pacifism, the "military revolution" that created the first professional armies; the development of diplomatic immunity, truces, and international law; the peace settlements of Westphalia, Utrecht, Vienna, Versailles, and San Francisco; the creation of peace movements and peace prizes; the evolution of total war, civil war, and guerrilla warfare involving civilians in the twentieth century; the history of the League of Nations and United Nations; and the rise of intergovernmental and non-governmental organizations. (Same as HIST 329.) LEC

EURS 401 Business, Culture, and Society: Western Europe (3). H This course will be a team-taught interdisciplinary overview of issues related to business in Western Europe. Directed primarily at sophomores and juniors, the course will be open to both business and non-business majors. This course may be taken concurrently with language or area studies courses and is designed to reinforce the linkages between language, area studies, and international business. (Same as IBUS 305.) Prerequisite: Sophomore standing. LEC

EURS 430 European Civilization in World Context: ____ (3). HL H An introduction to the literature of encounter between European and non-European civilizations, drawing on both Western and non-Western sources. The course may include European interactions with areas such as the Mediterranean Basin, Sub-Saharan Africa, South and East Asia, and the Americas. World areas and historical periods chosen for study will vary from semester to semester according to the interest

and field of the instructor. Not open to freshmen. (Same as HWC 430.) Prerequisite: HWC 114 or HWC 204 and HWC 115 or HWC 205. LEC

EURS 500 Seminar in European Studies (3). H This course will provide an interdisciplinary approach to the study of modern European civilization. By discussing both classic and contemporary, controversial readings each week and writing several papers during the semester, students will acquire an understanding of the development of modern European culture and society and Europe's contemporary problems. Topics for discussions and papers will be drawn from the following subjects: the economic and political integration of the European states; modernism and anti-modernism in European culture; imperialism, migration, and ethnic and racial divisions in European society; democracy versus dictatorship; American-European relations; mass culture, urban development, and the welfare state; and contrasts and comparisons between European Cultures—East and West, North and South. Seminar discussions will be led by invited European Studies faculty as well as the instructor or instructors. Required of all European Studies majors. Prerequisite: Junior or senior standing and completion of two courses in European Studies. Students may consult with a European Studies adviser about their eligibility. LEC

EURS 501 Senior Thesis in European Studies (3). H European Studies majors will do research and write a substantial paper on a topic in the culture, economy, history, or politics of Europe. Topics will be approved by the European Studies Committee. Students will work with an adviser chosen from among the European Studies faculty and with the European Studies Coordinator. The majority of the students' work will be done independently with their advisers, but students will meet with the European Studies Coordinator several times as a class to report on their progress and present their final drafts. Required of all European Studies majors. Prerequisite: Completion of EURS 500 and 15 hours toward the Co-Major. IND

EURS 502 Senior Honors Thesis in European Studies (3). H Open to European Studies majors doing their senior thesis for Honors. Prerequisite: Completion of EURS 500, 15 hours toward the Co-Major, and approval of Honors thesis by European Studies Committee. Completion of or concurrent enrollment in EURS 501. IND

EURS 503 Europe Today (3). S This intensive, interdisciplinary seminar focuses on current social, political, and economic changes in Europe. Topics include European integration and the European Union, the conflict between nationalism and European consciousness, NATO and U.S.-European relations, and international business in Europe. The seminar will include guest lectures from an international array of scholars, political officials, and business representatives, as well as site visits to their institutions and companies. The seminar takes place in Brussels, Belgium, and enrollment is restricted to students accepted in the KU Summer Institute for European Studies study abroad program. LEC

EURS 505 Studies in Exile Literature (3). H A multidisciplinary study of selected literary, scholarly, and creative works produced by those Europeans forced into exile, emphasizing their impact on culture and society both in Europe and in those countries in which the exiles resided. Examples: exile during the Nazi dictatorship in Germany (1933-1945), during Cold War crises (Berlin 1960, Prague 1968). LEC

EURS 506 Culture and Politics of the Cold War in Western Europe (3). H An interdisciplinary overview of the Cold War period (1945-1985) focusing on Western European dimensions of the problem, based on the view that the Cold War structured political institutions, cultures, and societies in enduring ways that continue to be relevant today. LEC

EURS 507 Research in European Collections (1-3). H This course allows students in the European Studies Co-Major and related disciplines to receive credit for research related to European Collections in one or more of the following institutions: Watson and Spencer Research Libraries, the Dole Institute, the Eisenhower and Truman Presidential Libraries, the U.S. Army Combined Arms Research and Foreign Military Studies Office at Fort Leavenworth, the Linda Hall Library in Kansas City, and Winston Churchill Collection at the Westminster College Library in Fulton, Missouri. May be taken in place of EURS 501 by European Studies Honors Students if taken for three credit hours. Permission of instructor necessary. IND

EURS 508 Politics and Economics of Cultural Production in Western Europe (3). H Artists and intellectuals in their relation to state and society. This course is designed to introduce students (1) to the role European artists and intellectuals have often played in the arena of politics and (2) to the privileged place cultural production (arts, literature, media) occupies in the formation of various European identities and economies. LEC

EURS 509 Introduction to the Study of Southern European Societies (3). H Social, historical, and economic study of Southern European societies with emphasis on modern period. Relevant to the study of European integration and EU enlargement. Consideration of the distinctive southern Mediterranean societies from the perspective of their collective identity as a regional economic and geopolitical bloc. LEC

EURS 510 Scandinavian Life and Civilization (3). H This course is designed to impart a general knowledge of life in Denmark, Finland, Iceland, Norway, and Sweden with emphasis on social and cultural conditions, against a geographical and historical background, from

the Viking Age to the present. Slides and other illustrated materials. (Same as SCAN 570.) LEC

EURS 511 Topics in European Studies: _____ (3). H A study of significant themes, movements, or problems in European history, literature, politics, society, or culture. May also relate European issues to issues in other world areas (Africa, North America, Asia, etc.) May be repeated for credit when topic varies. LEC

EURS 512 Irish Culture (3). H This course explores enduring themes of Irish history, literature, and art from the Iron Age to the present day. Focus may vary with instructor(s). (Same as ENGL 530 and HIST 552.) Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

EURS 536 Economic Issues in Europe (3). S A survey of the economies of the European Union, with a focus on the economic development of the member states since World War II, and an examination of the economic issues confronting them today. Topics covered will include the European Monetary System, fiscal and monetary policy, trade and agricultural policies, and the political economy of NATO. (Same as ECON 536.) Prerequisite: ECON 104 or ECON 144. LEC

EURS 550 Classics of Peace Literature (3). HL H A study of influential proposals for world peace from Erasmus' *The Complaint of Peace* (1516) to the 1995 Hague Appeal for World Peace. Selected writings by such authors as Erasmus, Hugo Grotius, Jean-Jacques Rousseau, Immanuel Kant, Henry Thoreau, Henri Dunant, Berthe von Suttner, Woodrow Wilson, Mahatma Gandhi, and Martin Luther King, Jr., are considered. (Same as HWC 550.) Prerequisite: HWC 204 or HWC 205. LEC

EURS 565 The Literature of Human Rights (3). H Examines in literature, art, and film from about 1800 to the present, both sides of the ongoing debate surrounding the idea that all human persons possess inalienable rights because all persons possess intrinsic value as persons, value independent of race, gender, caste or class, wealth, age, sexual preference, etc. Anti- and pro-rights proponents are paired and studied with equal care. (Same as HWC 565.) LEC

EURS 580 Directed Study (1-3). H Independent study and directed reading on special topics. Permission of the instructor who will supervise the student's work is required. LEC

EURS 581 Discussion Section in French (1). U The 1 credit hour course represents a foreign language discussion section to be attached to a major 3-credit hour EURS course (example: EURS 500). Foreign language discussion sections are an integral part of the KULAC program envisaged to reinforce foreign language proficiency. LEC

EURS 582 Discussion Section in German (1). U The 1 credit hour course represents a foreign language discussion section to be attached to a major 3-credit hour EURS course (example: EURS 500). Foreign language discussion sections are an integral part of the KULAC program envisaged to reinforce foreign language proficiency. LEC

EURS 583 Discussion Section in Italian (1). U The 1 credit hour course represents a foreign language discussion section to be attached to a major 3-credit hour EURS course (example: EURS 500). Foreign language discussion sections are an integral part of the KULAC program envisaged to reinforce foreign language proficiency. LEC

EURS 584 Discussion Section in Spanish (1). U The 1 credit hour course represents a foreign language discussion section to be attached to a major 3-credit hour EURS course (example: EURS 500). Foreign language discussion sections are an integral part of the KULAC program envisaged to reinforce foreign language proficiency. LEC

EURS 604 The European Union (3). H The European Union, the union of 25 European countries, is a culmination of a long history of European unity. The European Union now encompasses population and economic strength rivaling that of the United States. This course examines selected topics in the history of European integration and the political, legal, economic, and social implications of the present European Union as well as its relations with the United States and other regions of the world. LEC

Evolutionary Biology

Students may concentrate in ecology and evolutionary biology by seeking a B.A. in biology or a B.S. in biology (concentrations in ecology and evolutionary biology, genetics, or organismal biology). See Biological Sciences.

French and Italian

Chair: Van Kelly
Wescoe Hall, 1445 Jayhawk Blvd., Room 2104
Lawrence, KS 66045-7590

(785) 864-9062, www.ku.edu/~frenital

Placement Adviser, French: Kimberly Swanson
2060 Wescoe Hall, (785) 864-9066, kswanson@ku.edu

Placement Adviser, Italian: Marina de Fazio
2063 Wescoe Hall, (785) 864-9064, defazio@ku.edu

Placement advising for students who have studied abroad: see major advisers

Degrees offered: B.A., M.A., Ph.D.

Course work in the Department of French and Italian provides students with a valuable and useful linguistic tool; offers cultural training for students specializing in other fields; trains majors in the literature, culture, and civilization of France and Italy; and prepares prospective language teachers. The department welcomes qualified students from all disciplines, regardless of major.

Courses for Nonmajors

All courses are open to nonmajors who meet requirements. Candidates for the B.S. degree in education who want to major or minor in French should consult the School of Education chapter of this catalog. Special concentrations in French and Italian are also available through business and journalism.

Placement

Any student who is uncertain about enrollment level in French or Italian should go to the department office for placement. In general, placement depends on the overall proficiency of the student and on what was accomplished in previous French or Italian courses.

A student entering KU with no previous French should enroll in FREN 110. A student entering KU with no previous Italian should enroll in ITAL 110 or ITAL 155.

Students who are sufficiently prepared to fulfill the language requirement in the first semester at KU may enroll in FREN 240, FREN 300, or FREN 326, or may contact the department office to arrange to take the French Proficiency Test. A student who has four years of high school French and wants to continue the study of French beyond the language requirement may take FREN 300 or FREN 326.

Retroactive Credit. Students with no prior college or university French or Italian course credit are eligible for retroactive credit according to this formula:

Three hours of retroactive credit are awarded to a student with two or three years of high school French or Italian who enrolls initially at KU in a third-level French or Italian course (FREN 230 or ITAL 230) and receives a grade of C or higher.

Six hours of retroactive credit are awarded to a student with three or four years of high school French or Italian who enrolls initially at KU in a fourth-level French or Italian course (FREN 240 or ITAL 240) and receives a grade of C or higher.

Nine hours of retroactive credit are awarded to a student with four years of high school French or Italian who enrolls initially at KU in a French or Italian course with a fourth-level course as a prerequisite and receives a grade of C or higher.

Majors

The department offers the major in French, an option in Italian, and an option in French and Italian studies. Prospective majors should consult the department during or before the second semester of the sophomore year.

First- and Second-year Preparation. The normal course progression for first- and second-year students considering a major in French is FREN 110, FREN 120, FREN 230, and FREN 240. FREN 230 and FREN 240 may be replaced by FREN 234. Eligible students are encouraged to enroll in honors sections of third-semester French (FREN 231) and fourth-semester French (FREN 241). FREN 300 is the prerequisite for all other 300-level courses, although FREN

See pages 54-64 of this catalog for complete CLAS requirements for the B.A. and B.G.S. degrees.

Students can hear the news from almost 60 countries through the Ermal Garinger Academic Resource Center's satellite link with SCOLA, an international news broadcast.

The Student Records Center is in Strong Hall, 1450 Jayhawk Blvd., Room 151, Lawrence, KS 66045-7535, (785) 864-4423.

300 and FREN 375 may be taken concurrently. FREN 326 is the prerequisite for all 400-level courses.

French majors are encouraged to take Italian, and Italian majors French. All majors are encouraged to take courses in European studies, European history, art history, and philosophy, as well as English and foreign languages, literatures, and linguistics. Students often combine a major in French or a concentration in Italian with majors in business, humanities, journalism, the sciences, premedicine, or prelaw. Language majors are useful in a variety of careers. The study of languages, literatures, and cultures enhances personal growth and broadens professional horizons, allowing fuller participation in an increasingly global community.

Requirements for the B.A. Major in French. A total of 30 hours is required, as follows:

- FREN 300 Intensive Review of French Grammar 3
- FREN 310 French Phonetics (3) **or**
- FREN 500 Advanced French Phonetics (3) 3
- FREN 326 Introduction to French Literature 3
- FREN 350 Applied French Grammar and Composition I (3) **or**
- FREN 352 French for Journalism and Business (3) 3
- FREN 375 Intermediate French Conversation 3
- Three of the five literature courses numbered FREN 450-FREN 470 ... 9
 - FREN 450 French Literature of the Middle Ages (3)
 - FREN 455 French Literature of the Renaissance (3)
 - FREN 460 French Literature of the Seventeenth Century (3)
 - FREN 465 French Literature of the Nineteenth Century (3)
 - FREN 470 French Literature of the Twentieth Century (3)
- Plus 6 hours selected from FREN 376, FREN 410, FREN 420, FREN 430, FREN 431, FREN 440, FREN 480, FREN 530, FREN 600 ... 6

Requirements for the Option in French and Italian Studies. A total 30 hours is required, with courses in three areas of each language and culture, as follows:

Language Area

- FREN 300 Intensive Review of French Grammar (3) **or**
- FREN 350 Applied French Grammar and Composition I (3) **or**
- FREN 352 French for Journalism and Business (3) 3
- FREN 375 Intermediate French Conversation (3) **or**
- FREN 376 Advanced French Conversation (3) 3
- ITAL 300 Composition and Conversation 3
- ITAL 315 Advanced Composition and Conversation 3

Literature Area

- FREN 326 Introduction to French Literature 3
- One course between FREN 450 and FREN 480 3
- ITAL 301 Introduction to Italian Literature I 3
- ITAL 302 Introduction to Italian Literature II 3

Civilization Area

- One 3-credit-hour course chosen from FREN 410 Survey of French Culture I, FREN 420 Survey of French Culture II, FREN 430 La France d'aujourd'hui, FREN 431 French-speaking World (Outside France), FREN 440 Studies in French Culture: _____, FREN 592 French Culture Through Film I, Beginnings to 1950, and FREN 593 French Culture Through Film II, 1950-Present 3
- ITAL 335 Italy and the Italians I (3) **or**
- ITAL 336 Italy and the Italians II (3) 3

The appropriate language adviser may allow students to replace a course they do not need with a course at the appropriate level chosen from within the major or concentration. Students must complete 15 hours in each language.

Requirements for the Option in Italian. At least 24 credit hours are required beyond ITAL 240. Among these are

- ITAL 300 Composition and Conversation
- ITAL 315 Advanced Composition and Conversation 3
- Six credit hours earned through any combination of the following: ... 6
 - ITAL 301 Introduction to Italian Literature I
 - ITAL 302 Introduction to Italian Literature II
 - ITAL 495 Directed Readings in Italian¹
 - ITAL 695 Studies in Italian Literature¹

At least 12 hours chosen from the following courses: 12

- ITAL 335 Italy and the Italians I
- ITAL 336 Italy and the Italians II
- ITAL 405 Italian Literature in Translation: _____
- ITAL 410 19th- and 20th-century Short Stories
- ITAL 420 19th- and 20th-century Poetry
- ITAL 465 19th- and 20th-century Novels I
- ITAL 466 19th- and 20th-century Novels II
- ITAL 502 Dante's Divine Comedy I

- ITAL 503 Dante's Divine Comedy II
- ITAL 495 Directed Readings in Italian¹
- ITAL 695 Studies in Italian Literature¹

¹by permission of the Italian adviser only

The following courses do not count toward the maximum limit of 40 hours in the option: ITAL 110, ITAL 120, ITAL 230, and ITAL 240.

Requirements for the Minor. The department offers minors in both French and Italian. Consult an adviser in the appropriate language.

French. 18 credit hours, as follows:

- FREN 300 Intensive Review of French Grammar
- FREN 326 Introduction to French Literature
- Four elective courses chosen from among the courses already approved for the major in French. At least two of the four electives must be at the 400 level.

Italian. 18 credit hours, as follows:

- ITAL 300 Composition and Conversation (3)
- ITAL 315 Advanced Composition and Conversation (3)
- ITAL 301 Introduction to Italian Literature I (3)
- ITAL 302 Introduction to Italian Literature II (3)
- ²ITAL 335 Italy and the Italians I (3)
- ²ITAL 336 Italy and the Italians II (3)
- ²ITAL 340 Studies in Italian Culture and ITAL 495 Directed Readings in Italian may be taken in place of ITAL 335 and/or ITAL 336 only by permission of the Italian adviser.

Honors. Students may graduate with honors in French by completing 6 hours of FREN 499, intensive honors tutorials on limited areas of French or Francophone literature or culture. Consult the department early in the junior year. To begin honors work and to graduate with honors, students must have minimum grade-point averages of 3.25 in all courses and 3.5 in French.

Study Abroad

Summer Language Institute in Paris. The department conducts a six-week summer institute in Paris focusing on French language and culture. Students take courses in intermediate and advanced French language at L'Etoile, a private language institute in the center of Paris. Before the stay in Paris, students spend 10 days to two weeks touring regions such as Normandy, Brittany, and the château country along the Loire River. Some scholarship aid is available. Consult the department or the Office of Study Abroad for information.

Summer Language Institute in Strasbourg. The department conducts a five-week summer institute for more advanced students of French. After a five-day stay in Paris for cultural visits, students travel to Strasbourg, where they take courses in language and seminars covering topics related to French culture and history, Francophone literature, the media, contemporary civilization, and the European Union. They visit the European Union Parliament, the Council of Europe, and the European Court of Human Rights, and they tour sites in the Alsace-Lorraine region. Some scholarship aid is available. Consult the department or the Office of Study Abroad for information.

Summer Program in Florence, Italy. The department conducts a four- or eight-week summer program for elementary, intermediate, or advanced students of Italian. Students take courses in language and culture at an institute where all instructors are native speakers. Students live with Italian families and usually have weekends free to travel. Consult the department or the Office of Study Abroad for information.

Semester Programs in France. In cooperation with the Council on International Educational Exchange, KU offers a semester (or year) program at the University of Haute Bretagne in Rennes. It is designed for studies in

French language and civilization or for French education majors desiring to do practice teaching at the primary and secondary levels in French schools. After the first four weeks, the student constructs an individual program from a variety of course offerings. Other semester programs are available in cooperation with CIDEF, the language institute of the Université Catholique de l'Ouest in Angers. Consult the department or the Office of Study Abroad for information.

Semester Program in Florence, Italy. The department conducts a semester program in Florence for elementary, intermediate, or advanced students. Students take courses in Italian language and culture in a private language institute. All instructors are native speakers, and students live with Italian families. Consult the department or the Office of Study Abroad for information.

Academic-year Programs in France. The department participates in an exchange program with the Université de Franche-Comté in Besançon. It allows students in many disciplines to spend the academic year at a French university. After an orientation period with home stays, students move into residences and take classes in French language and culture at the Centre de Linguistique Appliqué. During the second semester, students enroll primarily at the university facultés but also may take classes at the Institut Universitaire de Technologie. Students who complete the program receive between 21 and 36 credit hours from KU. Some scholarship aid is available. Year-long programs at French institutions are available through the International Student Exchange Program. Consult the Office of Study Abroad.

● French Courses

FREN 100 French for Reading Knowledge (3). U Special course for candidates for advanced degrees in other departments. Fundamentals of grammar and reading of material of medium difficulty. Intended primarily for graduate students, but open also to seniors planning graduate study. Does not satisfy any part of the undergraduate language requirement. Presupposes no previous study of French. Conducted in English. LEC

FREN 104 Elementary French, Overseas (1-5). U Basic language instruction in French for beginners participating in study abroad programs in France or a French-speaking country. Graded satisfactory/unsatisfactory. LEC

FREN 107 Elementary French I for the Professional Schools (3). U Essentials of French grammar; practice in speaking, reading, and writing French. Introduction to French business culture. Three hours of class per week. This course does not satisfy the College of Liberal Arts and Sciences foreign language requirement. LEC

FREN 108 Elementary French II for the Professional Schools (3). U Essentials of French grammar; practice in speaking, reading, and writing French. Introduction to French business culture. Three hours of class per week. This course does not satisfy the College of Liberal Arts and Sciences foreign language requirement. Prerequisite: FREN 107 or equivalent. LEC

FREN 109 Elementary French III for the Professional Schools (3). U Essentials of French grammar; practice in speaking, reading, and writing French. Introduction to French business culture. Three hours of class per week. This course does not satisfy the College of Liberal Arts and Sciences foreign language requirement. Prerequisite: FREN 108 or equivalent. LEC

FREN 110 Elementary French I (5). U Five hours of class per week. A balanced approach stressing understanding, speaking, reading, and writing. (See also FREN 111 and FREN 114.) LEC

FREN 120 Elementary French II (5). U Five hours of class per week. A balanced approach stressing understanding, speaking, reading, and writing. (See also FREN 121.) Prerequisite: FREN 110, FREN 111, or by departmental permission. LEC

FREN 230 Intermediate French I (3). U Third-semester course stressing oral and written work in French; systematic review of grammar and introduction to reading in cultural texts. (See also FREN 231, FREN 234.) Prerequisite: FREN 120, FREN 121, or by departmental permission. LEC

FREN 231 Intermediate French I, Honors (3). U Similar in approach and content to FREN 230; smaller class size; open to students who had done very good to excellent work in previous French classes.

Prerequisite: Grade of B or A in FREN 120 or FREN 121, or departmental permission. LEC

FREN 234 Intermediate French I and II (6). U One-semester course meeting five times a week for six hours credit. Material same as in FREN 230 and FREN 240. (FREN 234, FREN 240, FREN 241—each completes foreign language requirement.) Prerequisite: FREN 120, FREN 121, or by departmental permission. LEC

FREN 240 Intermediate French II (3). U Continuation of FREN 230. (FREN 234, FREN 240, FREN 241—each completes foreign language requirement.) (See also FREN 241.) Prerequisite: FREN 230, FREN 231, or by departmental permission. LEC

FREN 241 Intermediate French II, Honors (3). U Similar in approach and content to FREN 240; smaller class size; open to students who have done very good to excellent work in previous French classes. Prerequisite: A grade of A in FREN 230 or FREN 231, or departmental permission. LEC

FREN 300 Intensive Review of French Grammar (3). H/W Designed to provide essential skills for advanced courses. Prerequisite: FREN 234, FREN 240, FREN 241, or by departmental permission. LEC

FREN 310 French Phonetics (3). H/W A course in practical phonetics with exercises stressing rhythm, intonation, and individual sounds. Prerequisite: FREN 240, FREN 241, or by departmental permission. LEC

FREN 315 Le Français Pratique (1-6). H/W Supplementary non-major language course that can be a sequel to the first four semesters of French. Primarily for students studying abroad. Covers vocabulary study, oral exercises, discussion of texts, writing, and free conversation. Prerequisite: FREN 230/231 or FREN 234, FREN 240/241. LEC

FREN 326 Introduction to French Literature (3). HL H Analysis of selected texts from various genres; special emphasis on explication de texte. Prerequisite: FREN 300 (or with FREN 300), or by departmental permission. LEC

FREN 330 French Language and Civilization I (3). H A study of French grammar, conversation, and composition, with selected aspects of French civilization. Available to participants in the Summer Language Institutes, and selected Study Abroad programs. LEC

FREN 335 France and the French (3). HL H A comprehensive, interdisciplinary survey of French culture that may include topics ranging from the earliest times to the present, with particular attention to literature, the arts, thought, politics, society, food, and customs. Does not count towards the major. LEC

FREN 340 French Language and Civilization II (3). H A study of French grammar, conversation, and composition, with selected aspects of French civilization. Available to participants in the Summer Language Institutes, and selected Study Abroad Programs. LEC

FREN 350 Applied French Grammar and Composition I (3). H/W Systematic grammar review with extensive practice in writing French. Prerequisite: FREN 300 or FREN 326. LEC

FREN 352 French for Journalism and Business (3). H/W Practical acquisition of skills necessary to understand the language of journalism and business. Prerequisite: FREN 300. LEC

FREN 375 Intermediate French Conversation (3). H/W Three meetings per week. Guided discussions designed to increase fluency, improve pronunciation, and acquire vocabulary. Sections limited to twelve students. May be designated a KULAC class at the discretion of the instructor. Prerequisite: FREN 300 or concurrent enrollment in FREN 300. LEC

FREN 376 Advanced French Conversation (3). H/W Three meetings per week. Guided discussions designed to increase fluency, improve pronunciation, and knowledge of French culture and language. Classes have centered around topics such as the French Revolution, the Arts, Renaissance Festivals, and French cinema. Sections limited to twelve students. May be designated a KULAC class at the discretion of the instructor. Prerequisite: FREN 375. LEC

FREN 405 French Literature in Translation (3). HL H Readings and discussions of representative great masterpieces of French literature from the medieval Arthurian romances and chansons de geste to the present, with particular emphasis on the question of the interrelations of form and content. Includes such authors as Rabelais, Montaigne, Racine, Molière, Voltaire, Balzac, Flaubert, Baudelaire, Proust, Gide, Camus, and Beckett. Conducted in English. A reading knowledge of French is extremely useful but not a requirement. LEC

FREN 406 Introduction to French Culture Through Film (3). H/W Discussion of great masterpieces of French film from the silent era to the present, with a particular emphasis on how film portrays and conveys important aspects of French culture past and present. The works of a variety of film-makers may be covered, and may include among others Georges Méliès, Jean Vigo, Jean Renoir, Abel Gance, René Clair, Marcel Carne, Jean Cocteau, Alain Resnais, Jean-Luc Godard, François Truffaut, Agnes Varda, Louis Malle, Eric Rohmer, and Claude Berri. Films will be shown in French with subtitles in English. Knowledge of French is useful, but not required. LEC

FREN 410 Survey of French Culture I (3). H/W A survey of the historical, philosophical, literary, and artistic development of France, from the beginning through the 17th century. Prerequisite: FREN 300 and FREN 326. May be designated a KULAC class at the discretion of the instructor. LEC

Semester, year, and summer programs of study are available in France and Italy. Consult the Office of Study Abroad, www.studyabroad.ku.edu.

The Department of French and Italian offers an accelerated intensive basic Italian sequence.

Courses in Haitian are offered by the Department of African and African-American Studies.

FREN 420 Survey of French Culture II (3). H/W Continuation of FREN 410, from the 18th century to the present. Prerequisite: FREN 300 and FREN 326. May be designated a KULAC class at the discretion of the instructor. LEC

FREN 430 La France d'Aujourd'Hui (3). H/W Social, political, and economic trends from 1939 to present, with emphasis on period since 1968. Prerequisite: FREN 300 and FREN 326. May be designated a KULAC class at the discretion of the instructor. LEC

FREN 431 French-speaking World (Outside France) (3). H/W Cultures of the some 235 million persons in the five world areas whose everyday and/or official language is French: Canada; Caribbean (e.g., Haiti, Guadeloupe, Martinique); Europe (e.g., Belgium, Switzerland); Africa and Indian Ocean (23 former French or Belgian colonies); Pacific (e.g., Tahiti, New Caledonia). Also French-speaking settlers in the United States (Louisiana, South Carolina, New England, Kansas). French presence in Indo-China and the Near East. Prerequisite: FREN 300 and FREN 326. (May be taken concurrently with FREN 300 and/or FREN 326.) May be designated a KULAC class at the discretion of the instructor. LEC

FREN 432 Francophone African Literature (3). NW H/W This course is an introduction of 20th Century African literature written in French, covering selected works by major authors from both sub-Saharan Africa and the Maghreb. Attention will be given primarily to the novel, although some poetry will also be read. Topics and themes include negritude, African identity in the wake of colonialism, Islam, and women's writing. Classes will be conducted in English. Students may read the texts in French or in translation. (Same as AAAS 432.) Prerequisite: ENGL 102 and a 200-level English course. LEC

FREN 440 Studies in French Culture: _____ (3). H/W Representative topics are: History of Paris, Role of Women in French Literature and Culture, Interrelationships of the Arts, French-speaking African Culture, Culture of French Canada. May be repeated for credit with departmental permission; may also be repeated as part of major in French language and culture. Prerequisite: FREN 300 and FREN 326. May be designated a KULAC class at the discretion of the instructor. LEC

FREN 450 French Literature of the Middle Ages (3). H/W Study of the principal authors, movements, and themes of the period. Prerequisite: FREN 300 and FREN 326. LEC

FREN 455 French Literature of the Renaissance (3). H/W Study of the principal authors, movements, and themes of the period. Prerequisite: FREN 300 and FREN 326. LEC

FREN 460 French Literature of the Seventeenth Century (3). H/W Study of the principal authors, movements, and themes of the period. Prerequisite: FREN 300 and 326. LEC

FREN 462 French Literature of the Eighteenth Century (3). H/W Study of the principal authors, movements, and themes of the period. Prerequisite: FREN 300 and 326. LEC

FREN 465 French Literature of the Nineteenth Century (3). H/W Study of the principal authors, movements, and themes of the period. Prerequisite: FREN 300 and FREN 326. LEC

FREN 470 French Literature of the Twentieth Century (3). H/W Study of the principal authors, movements, and themes of the period. Prerequisite: FREN 300 and FREN 326. LEC

FREN 480 Studies in French Literature: _____ (3). H/W A study of a period, theme, group of authors, or movement. Subject matter will vary; may be taken more than once if subject differs. Prerequisite: FREN 300 and FREN 326. LEC

FREN 495 Directed Readings in French (1-15). U May be taken more than once, total credit not to exceed fifteen hours. Fields not covered by course work, and/or field of student's special interest. Conferences. Counts as humanities when taken for two or three hours. Prerequisite: Twenty-five hours of French and consent of instructor. IND

FREN 499 Honors in French (3). H/W Various topics in French or Francophone literature or culture. May be taken more than once, total credit not to exceed nine hours. Minimum of six hours of FREN 499 required for B.A. with Honors in French. Student must discuss Honors eligibility and their topic with a faculty member before enrolling. IND

FREN 500 Advanced French Phonetics (3). H/W Advanced theory and practice of French pronunciation. Not open to students who have taken FREN 310, except by departmental permission. Prerequisite: FREN 300 or FREN 326 or graduate standing. LEC

FREN 530 Studies in Film: _____ (3). H/W Studies in an aspect of film, a director or group of directors. Emphasis on French film. Given in French or English. LEC

FREN 592 French Culture Through Film I, Beginnings to 1950 (3). H/W A survey of the major public images of French culture as surveyed in French silent and sound film from the early 1900s through World War II and its immediate aftermath. Students will view and discuss a selection of films that address crucial aspects of French culture such as (but not limited to) gender, war and peace, daily life, art and artists, tradition and revolution, city life versus country life, social classes, moral choice, and individual freedoms. The course will include discussion of the cultural and artistic significance of major French film movements like Poetic Realism. In addition to viewing

and discussing films, students will read and analyze the writings of a number of French intellectuals, writers, and artists who have had a major influence on French culture as it appears in films from 1900-1950. May be taught in French or English. For students who already have some knowledge of French culture. LEC

FREN 593 French Culture Through Film II, 1950-Present (3). H/W A survey of the major public images of French culture as surveyed in French silent and sound film from 1950 to present. Students will view and discuss a selection of films that address crucial aspects of French culture such as (but not limited to) gender, war and peace, daily life, art and artists, tradition and revolution, city life versus country life, colonialism and post-colonialism, social classes, moral choice, and individual freedoms. The course will include discussion of the cultural and artistic significance of major French film movements like the New Wave. In addition to viewing and discussing films, students will read and analyze the writings of a number of French intellectuals, writers, and artists who have had a major influence on French culture as it appears in films from 1950-present. May be taught in French or English. For students who already have some knowledge of French culture. LEC

FREN 600 Studies in: _____ (3). H/W Topics vary by semester. May be repeated for credit. Prerequisite: Departmental permission. LEC

FREN 610 Thème et Version (3). H/W Exercises in English-French and French-English translation, designed to enable the student to write with greater clarity and precision in both languages. LEC

FREN 620 Expository French Writing (3). H/W Intensive practice in writing French, designed to clarify fine points of grammar and usage and to aid the student in developing an accurate and graceful prose style. LEC

FREN 680 Language Teaching and Advanced Conversation (2-3). U A summer course designed principally for secondary school language teachers. Discussion of current theory in language acquisition integrated into an intensive oral review of French. Meets three hours daily for two weeks; includes lab. (Not applicable toward a major or graduate degree in French.) LEC

FREN 681 Language Teaching for Oral Proficiency (1). U A summer course designed principally for secondary school language teachers. Provides an orientation to proficiency-based models in foreign language instruction, national standards in the rating of foreign language proficiency, and curriculum development sessions which address issues of articulation in foreign language curricula. (Not applicable toward a major or graduate degree in French.) (Same as GERM 681 and SPAN 681.) LEC

FREN 700 Old French (3).

FREN 701 History of the French Language (3).

FREN 702 Provençal (3).

FREN 703 Structure of Modern French (3).

FREN 720 Introduction to Graduate Studies in French (3).

FREN 730 Introduction to French Poetry (3).

FREN 732 Francophone Studies (3).

FREN 740 Medieval French Literature (3).

FREN 750 French Literature of the Sixteenth Century (3).

FREN 763 French Drama of the Seventeenth Century (3).

FREN 765 Nondramatic French Literature of the Seventeenth Century (3).

FREN 770 French Literature of the Eighteenth Century (3).

FREN 782 French Novel of the Nineteenth Century (3).

FREN 785 French Romantic Movement (3).

FREN 787 French Post-Romanticism (3).

FREN 790 Contemporary French Writers (3).

FREN 792 Proust (3).

FREN 799 Master's Seminar (1).

● Italian Courses

ITAL 100 Italian for Reading Knowledge (3). U Special course for candidates for advanced degrees. Fundamentals of grammar and reading of material of medium difficulty. Open to graduate students and to seniors planning graduate study. Does not satisfy any part of the undergraduate language requirement. Presupposes no previous study of Italian. Conducted in English. LEC

ITAL 107 Elementary Italian Conversation I (3). U Offers knowledge of essential grammar and basic oral communication skills through extensive practice in grammar, listening comprehension, and conversation. Active participation required. Strongly recommended for participants in Italian study abroad programs and students in professional schools. Completion of both ITAL 107 and ITAL 108 counts toward partial fulfillment of language requirement and allows students to enroll in ITAL 120. LEC

ITAL 108 Elementary Italian Conversation II (3). U Offers knowledge of essential grammar and basic oral communication skills through extensive practice in grammar, listening comprehension, and conversation. Active participation required. Strongly recommended for participants in Italian study abroad programs and students in professional

schools. Completion of both ITAL 107 and ITAL 108 counts toward partial fulfillment of language requirement and allows students to enroll in ITAL 120. Prerequisite: ITAL 107, or Italian Coordinator's approval. LEC

ITAL 110 Elementary Italian I (5). U Five hours of class and two hours of language laboratory per week. Essentials of grammar and composition, easy reading, practice in pronunciation and speaking. LEC

ITAL 120 Elementary Italian II (5). U Five hours of class and two hours of language laboratory per week. Reading of simple texts; diction; speaking; elementary composition. Prerequisite: ITAL 110. LEC

ITAL 155 Intensive Basic Italian (3). U Part of accelerated two-course sequence (with 156) for students with previous language study or strong linguistic background. Offers a basic reading and/or speaking knowledge of Italian through practice in pronunciation, grammar, translating, and writing. Double-track course is offered both to students who want a basic, passive reading/translating knowledge and an active knowledge of Italian. Prerequisite: Previous study of another language or permission of instructor. LEC

ITAL 156 Intensive Basic Italian II (3). U A continuation of ITAL 155. Study of grammar and emphasis on reading skills. Prerequisite: ITAL 155 or permission of instructor. LEC

ITAL 230 Intermediate Italian I (3). U Intensive and extensive reading of modern texts; vocabulary, idioms, and discussion in Italian of texts. Review of grammar. Prerequisite: ITAL 120. LEC

ITAL 240 Intermediate Italian II (3). U Continuation of ITAL 230. (ITAL 240 completes foreign language requirement.) Prerequisite: ITAL 230. LEC

ITAL 300 Composition and Conversation (3). H/W A complete review of Italian grammar and usage for the advanced student. Compositions, conversation, and supportive readings in Italian. Prerequisite: ITAL 240 or permission of instructor. LEC

ITAL 301 Introduction to Italian Literature I (3). H/W Representative works and trends from origins to Renaissance. Prerequisite: ITAL 240 or reading knowledge of Italian. LEC

ITAL 302 Introduction to Italian Literature II (3). H/W Representative works and trends from 17th century to present. Prerequisite: ITAL 240 or reading knowledge of Italian. LEC

ITAL 303 Italian Language and Civilization I (3). U An advanced study of Italian grammar, conversation, composition, with selected aspects of Italian civilization. Available only to participants in the summer language institute or semester abroad in Florence. Prerequisite: ITAL 240. LEC

ITAL 304 Italian Language and Civilization II (3). U Continued advanced study of Italian grammar, conversation, and composition, with selected aspects of Italian civilization. Available only to participants in the summer language institute or semester abroad in Florence. Prerequisite: ITAL 303. LEC

ITAL 315 Advanced Composition and Conversation (3). H/W Intensive review of grammar and usage for advanced students. Compositions, conversation, and advanced readings in Italian. Prerequisite: ITAL 300 or permission of department. LEC

ITAL 335 Italy and the Italians I (3). HL H Survey of Italian culture with study of geography, history, government, education, Roman archaeology, and music. Lecture, discussion, and supportive readings. Not open to native speakers of Italian. LEC

ITAL 336 Italy and the Italians II (3). H Survey of Italian culture with study of art and architecture, literary masterpieces in translation, science, culinary arts, and cinema. Lecture, discussion, and supportive readings. Not open to native speakers of Italian. LEC

ITAL 340 Studies in Italian Culture: ____ (3). H A study of particular aspects of and/or periods in Italian culture. May be repeated for credit with departmental permission. Prerequisite: ITAL 240 or permission of instructor. LEC

ITAL 405 Italian Literature in Translation: ____ (3). H/W Major works representing various movements, themes, or genres. May be repeated with departmental permission. All work done in English. LEC

ITAL 410 Nineteenth- and Twentieth-century Short Stories (3). H/W A survey of representative short stories of the 19th and 20th Centuries, including Verga, Panzini, Pirandello, Guareschi, Moravia, Calvino, Landolfi, and Bigiaretti. Prerequisite: ITAL 240 or reading knowledge of Italian or permission of instructor. LEC

ITAL 420 Nineteenth- and Twentieth-century Poetry (3). H/W A survey of 19th and 20th century poets and their works, including Leopardi, Pascoli, d'Annunzio, Govoni, Palazzeschi, Gozzano, Marinetti, Boccioni, Ungaretti, Montale, Quasimodo, and Pasolini. Prerequisite: ITAL 240 or reading knowledge of Italian or permission of instructor. LEC

ITAL 465 Nineteenth- and Twentieth-century Novels I (3). H/W With Italian 466, a survey of representative 19th and 20th century novels including those of Manzoni, Pirandello, Svevo, Deledda, Vittorini, Moravia, Pavese, Pratolini, Buzzati, Ginzburg, and Calvino. Prerequisite: ITAL 240 or reading knowledge of Italian or permission of instructor. LEC

ITAL 466 Nineteenth- and Twentieth-century Novels II (3). H/W See ITAL 465. Prerequisite: ITAL 240 or reading knowledge of Italian or permission of instructor. LEC

ITAL 495 Directed Readings in Italian (1-3). U May be taken more than once, total credit not to exceed nine hours. Various fields of Italian literature. Prerequisite: Consent of instructor, given only to those having demonstrated ease in reading Italian. IND

ITAL 502 Dante's Divine Comedy I (3). H/W Detailed study of Dante's masterpiece. Attention will also be given to such matters as the development of the Italian language at Dante's period and the relation of the Comedy to Dante's other works. Prerequisite: Reading knowledge of Italian. LEC

ITAL 503 Dante's Divine Comedy II (3). H/W Continuation of ITAL 502. Prerequisite: Completion of ITAL 502. LEC

ITAL 695 Studies in Italian Literature (1-3). U May be taken more than once, total credit not to exceed nine hours. Directed readings, conferences with instructor. Prerequisite: ITAL 495 or consent of instructor. IND

Genetics

Students may concentrate in genetics by seeking a B.S. in biology. See Biological Sciences.

Geography

Chair: Terry Slocum

Associate Chair: Bill Johnson

Lindley Hall, 1475 Jayhawk Blvd., Room 213

Lawrence, KS 66045-7613

(785) 864-5143, www.geog.ku.edu

Undergraduate Coordinator: George F. McCleary

219 Lindley Hall, (785) 864-5540

Degrees offered: B.A., B.G.S., B.S., M.A., Ph.D.

Geography integrates information from a variety of sources to study the nature of culture areas, the emergence of physical and human landscapes, and problems of interaction between people and the environment. Mapping and other techniques for gathering and displaying spatial information are integral parts of the field.

Courses for Nonmajors

All geography courses below the 500 level are open to nonmajors, as are several above that level.

Majors

The B.A., B.G.S., and B.S. in geography provide general liberal arts enrichment, preparation for graduate work, and training for careers in geography and related fields. Geography may be combined with another program as a double major, or courses in another area may simply be added to those in geography.

First- and Second-year Preparation. Students should begin the major by fulfilling the core requirements and preparing for major courses.

Requirements for the B.A. or B.G.S. Major. Students electing a B.A. or B.G.S. degree program must meet all College principal course distribution and course requirements. The following minimum core of 15 to 16 hours, which must include specified courses, is required of all B.A. and B.G.S. majors in geography.

Core Requirements (15 hours)

GEOG 100 World Regional Geography (3) or	
GEOG 101 World Regional Geography, Honors (3) or	
another course in regional geography (3)	3
GEOG 104 Principles of Physical Geography (3) or	
GEOG 107 Principles of Physical Geography, Honors (3)	3
GEOG 105 Introductory Laboratory in Physical Geography	2
GEOG 102 Principles of Human Geography (3) or	
GEOG 103 Principles of Human Geography, Honors (3)	3
GEOG 111 Maps and Mapping (4) or GEOG 311 Map	
Conception and Development (4) or GEOG 316 Methods	
of Analyzing Geographical Data (4) or GEOG 358	
Principles of Geographic Information Systems (4)	4

Foreign language departments have information about placement in the language courses they offer. See the foreign language department sections in this chapter, or contact department offices.

KU's Lawrence campus is one of the most attractive in the nation, according to a study of college and university campuses by Thomas A. Gaines.

In addition to the core, 15 hours must be selected from at least three of the following four groups:

Physical Studies

- GEOG 148 Principles of Environmental Studies
- GEOG 304 Environmental Conservation
- GEOG 321 Climate & Climate Change
- GEOG 331 Regional Geomorphology of the United States
- GEOG 338 Introduction to River Systems
- GEOG 339 Topics in Physical Geography: _____
- GEOG 350 Physical Geography of Africa
- GEOG 410 Human Biogeography, Honors
- GEOG 521 Microclimatology
- GEOG 531 Topics in Physical Geography: _____
- GEOG 532 Geomorphology
- GEOG 535 Introduction to Soil Geography
- GEOG 536 Landscape Ecology
- GEOG 537 Elements of Plant Geography
- GEOG 541 Geomorphology
- GEOG 731 Topics in Physical Geography: _____
- GEOG 735 Soil Genesis, Classification, & Distribution
- GEOG 741 Advanced Geomorphology
- GEOG 749 Topics in Stable Isotopes in the Natural Sciences

Geographic Information Science

- GEOG 111 Maps & Mapping
- GEOG 210 Computers, Maps, & Geographical Analysis
- GEOG 311 Map Conception & Development
- GEOG 316 Methods of Analyzing Geographical Data
- GEOG 319 Topics in Techniques: _____
- GEOG 358 Principles of Geographic Information Systems
- GEOG 418 Internship in Production Cartography
- GEOG 433 Biogeography Field & Laboratory Techniques
- GEOG 458 Geographic Information Systems: _____
- GEOG 510 Human Factors
- GEOG 511 Intermediate Cartography: _____
- GEOG 513 Cartographic Design
- GEOG 514 Visualizing Spatial Data
- GEOG 516 Applied Multivariate Analysis in Geography
- GEOG 517 Data Handling & Map Symbolization
- GEOG 519 History of Cartography
- GEOG 526 Remote Sensing of Environment
- GEOG 558 Intermediate Geographical Information Systems
- GEOG 573 Advanced Geographic Analysis
- GEOG 658 Topics in Geographic Information Science: _____
- GEOG 711 Advanced Cartography: _____
- GEOG 713 Practicum in Cartography
- GEOG 714 Field Experience
- GEOG 716 Advanced Geostatistics
- GEOG 726 Remote Sensing of Environment II
- GEOG 733 Advanced Biogeography Field & Laboratory Techniques
- GEOG 758 Geographic Information Science

Human Studies

- GEOG 375 Intermediate Human Geography
- GEOG 377 Urban Geography
- GEOG 379 Topics in Cultural Geography: _____
- GEOG 515 Behavioral Systems
- GEOG 551 Intermediate Economic Geography
- GEOG 552 Topics in Urban/Economic Geography: _____
- GEOG 556 Geography of the Energy Crisis
- GEOG 557 Cities & Development
- GEOG 570 Geography of American Indians
- GEOG 571 Topics in Cultural Geography: _____
- GEOG 572 Political Geography
- GEOG 575 Geography of Population
- GEOG 576 Cultural Geography of the United States
- GEOG 579 Geography of American Foodways
- GEOG 657 Geographic Models
- GEOG 670 Cultural Ecology
- GEOG 719 Development of Geographic Thought
- GEOG 752 Topics in Urban/Economic Geography: _____
- GEOG 756 Energy Problems & the Economic-physical Environment
- GEOG 771 Topics in Cultural Geography: _____
- GEOG 772 Problems in Political Geography
- GEOG 773 Humanistic Geography
- GEOG 775 Proseminar in Population Geography

Regional Studies

- GEOG 100 World Regional Geography
- GEOG 351 Africa's Human Geographies
- GEOG 390 Geography of the United States & Canada
- GEOG 396 China's Geographies
- GEOG 397 Geography of Kansas & the Plains
- GEOG 399 Topics in Regional Studies: _____
- GEOG 550 Environmental Issues in Africa
- GEOG 553 Geography of African Development
- GEOG 591 Geography of Latin America
- GEOG 592 Middle American Geography
- GEOG 593 Central American Peoples & Lands

- GEOG 594 Geography of the Former Soviet Union
- GEOG 595 Geography of Eastern Europe
- GEOG 596 Geography of China
- GEOG 597 Geography of Brazil
- GEOG 790 North American Regions: _____
- GEOG 791 Latin American Regions: _____
- GEOG 794 Regions of the Former U.S.S.R.
- GEOG 795 European Regions: _____
- GEOG 796 Asian Regions: _____

Courses with a _____ at the end of their titles are typically topics or seminar courses that may be repeated for credit. Usually these courses offer different topics each time they are offered. Students should check with the course instructor about the requirements to take the course and what the topic will be when it is offered.

Requirements for the B.S. Degree. B.S. students must select one of the options below (physical geography or geographical information and analysis). A total of 124 credit hours is required, of which 45 must be junior/senior hours, 30 must be KU residence hours, no more than 64 may be community college transfer hours, no more than 6 may be music organization hours, and no more than 4 may be physical education hours. An overall grade-point average of 2.0 is required, with an average of 2.0 in geography junior/senior courses.

B.S. Physical Geography Option. General Requirements

- English (ENGL 101 or exemption) 0-3
- ENGL 102 (or ENGL 105 or exemption) 0-3
- 200-level English course or above (ENGL 362 recommended) .. 3
- COMS 130 (COMS 230, PHIL 148, PHIL 310, or exemption) ... 0-3
- History or philosophy of science 3
- (Choose one of the following or consult undergraduate committee for approval of alternatives: HIST 103, HIST 136, HIST 305, HIST 306, HIST 311, HIST 347, HIST 360, HIST 407, PHIL 370, PHIL 375, PHIL 380, PHIL 620, PHIL 622)
- Two principal courses in the humanities 6
- Two principal courses in the social sciences 6

Preparation for the Major

- MATH 121 and MATH 122 Calculus I and II (recommended) (10) **or** MATH 115 and MATH 116 Calculus I and II (6) 6-10
- PHSX 211 and PHSX 212 General Physics I and II (recommended) **or** PHSX 114 and PHSX 115 College Physics I and II 6-8
- BIOL 150 Principles of Molecular and Cellular Biology (4) and BIOL 152 Principles of Organismal Biology (4) and BIOL 414 Principles of Ecology (3) 11
- CHEM 184 and CHEM 188 Foundations of Chemistry I and II ... 10
- EECS 128 Introduction to Computer-based Information Systems or equivalent 3
- Additional hours in an allied field (e.g., ATMO, BIOL, EVRN, or GEOL) approved by a geography adviser 6

Geography Requirements: Overview Courses

- GEOG 104 Principles of Physical Geography (3) **or** GEOG 107 Principles of Physical Geography, Honors (3) ... 3
- GEOG 105 Introductory Laboratory in Physical Geography 2
- GEOG 100 (or GEOG 101) World Regional Geography (3) **or** GEOG 102 (or GEOG 103) Principles of Human Geography (3) .. 3

Geography Requirements: Foundation Courses

1. **Physical:** Choose **three** of the following: 9-10
 - GEOG 304 Environmental Conservation
 - GEOG 321 Climate and Climate Change
 - GEOG 331 Regional Geomorphology of the United States
 - GEOG 338 Introduction to River Systems
 - GEOG 535 Introduction to Soil Geography
2. **Techniques:** The following are required: 12
 - GEOG 316 Methods of Analyzing Geographical Data
 - GEOG 358 Principles of Geographic Information Systems
 - GEOG 526 Remote Sensing of Environment
3. **Field Experience:** Choose **one** of the following: 3-4
 - EVRN 460 Field Ecology
 - GEOG 433 Biogeography Field and Laboratory Techniques
 - GEOG 714 Field Experience

Geography Requirements: Elective Courses

- Six additional hours from the Physical Geography course list (300-level or above) 6
- Six additional hours of geography (any group, 300-level or above) 6

Requirements for the B.S. Geographical Information and Analysis Option. General Requirements

- English (ENGL 101 or exemption) 0-3
- ENGL 102 (or ENGL 105 or exemption) 0-3
- 200-level English course or above (ENGL 362 recommended) .. 3
- COMS 130 (COMS 230, PHIL 148, PHIL 310, or exemption) ... 0-3
- History or philosophy of science 3



(Choose one of the following or consult undergraduate committee for approval of alternatives: HIST 103, HIST 136, HIST 305, HIST 306, HIST 311, HIST 347, HIST 360, HIST 407, PHIL 370, PHIL 375, PHIL 380, PHIL 620, PHIL 622)

Two principal courses in the humanities	6
Two principal courses in the social sciences	6
<i>Preparation for the Major</i>	
MATH 121 and MATH 122 Calculus (10) or MATH 115, MATH 116, and MATH 122 Calculus (11)	10-11
EECS 138 Introduction to Computing: _____ or equivalent	3
PHSX 114 and PHSX 115 or BIOL 150 and BIOL 152	8
<i>Geography Requirements: Core Courses</i>	
GEOG 104 (or GEOG 107) Principles of Physical Geography (3) or GEOG 148 (or GEOG 149) Principles of Environmental Studies (3)	3
GEOG 111 Maps and Mapping (4) or GEOG 210 Computers, Maps, and Geographical Analysis (3)	3
GEOG 100 (or GEOG 101) World Regional Geography (3) or GEOG 102 (or GEOG 103) Principles of Human Geography (3) ..	3
<i>Geography Requirements: Additional Geography</i>	
Two 300-level or above courses in Physical Studies, Human Studies, and/or Regional Studies	6
<i>Geography Requirements: Core Techniques</i>	
Six courses, at least one from each category:	20-24
<i>Cartography and Visualization:</i> GEOG 311, GEOG 513, GEOG 517	
<i>Geographical Information Systems:</i> GEOG 358, GEOG 558, GEOG 758	
<i>Remote Sensing:</i> GEOG 526, GEOG 726	
<i>Statistics:</i> GEOG 316, GEOG 516, GEOG 716	
<i>Geography Requirements: Techniques Electives</i>	
Two other courses from Techniques Studies	6-8
<i>Allied Field.</i> Three courses and 9 hours minimum in one field (or a minor): area studies, atmospheric science, biology, computer science, design, environmental studies, engineering, geology, psychology, urban planning	9
<i>Electives</i> (17 to 26 credit hours). Any university courses	17-26

Student Success in College: Creating Conditions That Matter praises the University of Kansas as one of 20 universities and colleges nationwide that creates an effective learning environment for students to succeed in their college careers. The book is based on a 2004 report called Project DEEP, or Documenting Effective Educational Practice, from the Center for Postsecondary Research at Indiana University.

Requirements for the Minor. The department offers two minors. The first is a general minor in geography. The second is specifically designed to give students a background in geographic information science. Students should carefully consider which minor best meets their academic goals before choosing one.

The **Minor in Geography** requires 18 hours of geography courses with at least 12 hours numbered 300 or above and a minimum grade-point average of 2.0 in courses taken for the minor.

The **Minor in Geographic Information Science** requires 18 hours including (1) GEOG 111 or GEOG 210, and GEOG 316 and GEOG 358; (2) **three** additional courses from the Techniques group (300-level or above); and (3) a minimum grade-point average of 2.0 in courses taken for the minor.

Honors. To be accepted as a candidate for honors, a major must have completed at least 9 hours of upper-division credit in geography with a grade-point average of 3.5 in all geography courses and of at least 3.25 overall. In addition to outstanding work in geography, the program requires GEOG 499, an independent study course consisting of an honors paper. The student presents the results of this paper in an oral examination to a committee of at least two faculty members, normally from the geography department, chaired by the GEOG 499 supervisor. To graduate with honors, the student must complete the paper and the examination and maintain the 3.5 and 3.25 grade-point averages.

Career Opportunities

A major in geography may lead to a career in cartography, environmental analysis, physical geography, regional analysis, urban and regional planning, or to employment that requires some combination of geographic subfields. For general questions, see the undergraduate coordinator. For career counseling, see these professors:

Atmospheric Science: Donna Tucker, 404 Lindley; David Braaten, 413C Lindley; Nate Brunzell, 117A Lindley; Curtis Hall, 413A Lindley

Cartography: George McCleary, 219 Lindley; Terry Slocum, 215 Lindley
GIS: Xingog Li, 409 Lindley; Kevin Price, 230 Lindley; Terry Slocum, 215 Lindley; George McCleary, 219 Lindley; Stephen Egbert, 217C Lindley; Jerome Dobson, 214 Lindley

Human and Cultural Geography: Pete Shortridge, 219 Lindley; Barbara Shortridge, 221 Lindley; Garth Myers, 201 Lindley; Chris Brown, 223 Lindley; Peter Herlihy, 202 Lindley; Shannon O'Leary, 219B Lindley; So-Min Cheong, 217B Lindley

Physical and Environmental Geography: William Johnson, 420 Lindley; Curt Sorenson, 417 Lindley; Valery Terwilliger, 402 Lindley; Johannes Feddema, 204 Lindley

Regional Geography and Area Studies: Chris Brown, 223 Lindley; Shannon O'Leary, 219B Lindley; So-Min Cheong, 217B Lindley; Peter Herlihy, 202 Lindley; Garth Myers, 201 Lindley

Remote Sensing/Environmental and Land-use Analysis: Kevin Price, 230 Lindley; Stephen Egbert, 217C Lindley; Jerome Dobson, 214 Lindley

● Geography Courses

GEOG 100 World Regional Geography (3). SC S An introductory survey of the environmental setting, historically formative periods, and present-day issues that distinguish the major culture areas of the world. LEC

GEOG 101 World Regional Geography, Honors (3). SC S An introductory survey of the environmental setting, historically formative periods, and present-day issues that distinguish the major culture areas of the world. Open only to students in the College Honors Program, or by consent of instructor. LEC

GEOG 102 Principles of Human Geography (3). SC S An examination of the relationships between humans and their environments. The course introduces students to basic concepts in human geography relating to economic activities, landscapes, languages, migrations, nations, regions, and religions. Serves as the basis for further course work in cultural, economic, political, population, and urban geography. LEC

GEOG 103 Principles of Human Geography, Honors (3). SC S An introduction to how human societies organize space and modify the world about them. Resultant patterns on the landscape are interpreted through principles of space perception, cultural ecology, diffusion, land use, and location theory. Comparisons are made between urban and rural areas and between subsistence and commercial societies. Open to students who have been accepted into the College Honors Program. LEC

GEOG 104 Principles of Physical Geography (3). NE N The components of the physical environment are discussed in order to familiarize the student with their distributions and dynamic nature. Major topics include the atmosphere, landforms, soils, and vegetation together with their interrelationships and their relevance to human activity. This course and GEOG 105 together satisfy the laboratory science requirement. Both courses are required for geography majors. LEC

GEOG 105 Introductory Laboratory in Physical Geography (2). N A laboratory course designed to complement GEOG 104 in satisfying the laboratory science requirement. It is required for geography majors. Laboratory exercises include a wide variety of analyses using data on the atmosphere, hydrosphere, biosphere, and lithosphere. Prerequisite: GEOG 104, which may be taken concurrently. LAB

GEOG 107 Principles of Physical Geography, Honors (3). NE N Interactive processes among the systems of the earth are studied and discussed. Major topics include vegetation, soils, landforms, water, the atmosphere, and cycles of matter between these portions of the earth. The course includes lectures and critical discussions to address study problems in physical geography. Open only to students in the University Honors Program or by consent of the instructor. LEC

GEOG 111 Maps and Mapping (4). H How do people find their way from here to there or just around? Simple—they use maps. Maybe not maps on pieces of paper but maps in their heads: mental maps. Different people have different maps, even of the same place. Mapping is an ancient form of communication and maps have created ideas and opinions, promoted understanding and confusion. A non-technical approach to the transformation of space onto maps, to their content and structure, and their role and impact in human activity, past and present. Neither background in geography nor artistic skills are required. LEC

GEOG 148 Principles of Environmental Studies (3). NB N This course presents an overview of our understanding of environmental processes and environmental issues. Topics include scientific principles, population and resource issues, pollution and global change, and land use and management. This course gives students a rigorous understanding of interactions between humans and their environment, and provides students with a scientific basis for making informed environmental decisions. (Same as EVRN 148.) LEC

GEOG 149 Principles of Environmental Studies, Honors (3). NB N This course presents an overview of our understanding of environmental processes and environmental issues. Topics include scientific principles, population and resource issues, pollution and global change, and land use and management. This course gives students a rigorous understanding of interactions between humans and their environment, and provides students with a scientific basis for making informed environmental decisions. An honors section of GEOG 148, designed for superior students. Membership in the University Honors Program or approval of instructor required. (Same as EVRN 149.) LEC

GEOG 158 GIS in Science and Society (3). N An examination of the development of geographic information science (GISci) from its roots in traditional geography, cartography, and remote sensing to modern geographic information systems (GIS). GIS is explored as a new scientific instrument, a “macroscope,” for representing and analyzing complex earth processes, both physical and cultural. The societal benefits and risks of GIS are demonstrated and discussed. LEC

GEOG 210 Computers, Maps, and Geographical Analysis (3). N This course will introduce students to a number of different methods for the visualization, representation, and analysis of geographical phenomena. Both field and computer-based techniques will be employed to demonstrate the concept of experimental design and the collection, processing, and analysis of geographical data. Topics include: 1) the unique nature of geographic data; 2) mapping techniques and technologies; 3) geographical information systems; 4) remote sensing (aerial photography and satellite imagery); and 5) methods of geographical analysis (e.g., statistic and spatial modeling). LEC

GEOG 304 Environmental Conservation (3). NE N A survey of current methods of describing and modeling the function, structure, and productivity of natural and anthropogenically modified earth resource systems, along with a discussion of contemporary views of what constitutes a natural landscape. Fundamental natural science principles about the interplay among lithospheric, atmospheric, hydrospheric, and biospheric components of earth systems are emphasized. Uses of natural resources, including fossil fuels, minerals, and water are described with attention to the earth's total energy budget. Human activities that affect preservation, conservation, and multiple uses of earth regions receive attention. Systems under stress through population and other contemporary forces serve as examples. (Same as EVRN 304.) LEC

GEOG 311 Map Conception and Development (4). N An examination of the map process with emphasis on two areas: 1) the mental map formed during interaction with the environment and 2) the map as a physical object which emerges from mapping activity. A local area will serve as the laboratory/environment for the mapping activity including production and use. LEC

GEOG 316 Methods of Analyzing Geographical Data (4). N Introduces the benefits and limitations of using quantitative methods to analyze geographical problems. Covers traditional descriptive (e.g., measures of central tendency) and inferential statistics (e.g., hypothesis testing) but also inherently geographical approaches such as shape and point pattern analysis, and spatial autocorrelation. Laboratory emphasizes using the computer to explore and analyze geographical problems. LEC

GEOG 319 Topics in Techniques: ____ (1-3). N An investigation of special topics in Techniques. May include course work in cartography, GIS, or remote sensing. May be repeated if topic differs. LEC

GEOG 321 Climate and Climate Change (3). N This course is designed to introduce students to the nature of the Earth's physical climate. It introduces the basic scientific concepts underlying our understanding of our climate system. Particular emphasis is placed on energy and water balances and their roles in evaluating climate change. The course also evaluates the impact of climate on living organisms and the human environment. Finally, past climates are discussed and potential future climate change and its impact on humans is evaluated. (Same as ATMO 321.) Prerequisite: ATMO 105 or GEOG 104. LEC

GEOG 331 Regional Geomorphology of the United States (3). N This course examines forces and processes affecting the earth's surface, and furthermore identifies and describes the physiographic regions that are the result of these processes. Special efforts are made to explore various photographic resources, satellite imagery, and internet sources or geomorphic data from a regional perspective since there is no wholly satisfactory text available for the course. A research paper is required. Prerequisite: An introductory earth science course or consent of instructor. LEC

GEOG 338 Introduction to River Systems (3). N A course of fluvial geomorphology. Topics include the drainage basin, fluvial processes, river channel adjustment and forms, human disturbance and geomorphic response, and research methods in fluvial geomorphology. Field trip. Prerequisite: GEOG 104. LEC

GEOG 339 Topics in Physical Geography: ____ (1-3). N An investigation of special topics in Physical Geography. May include course work under headings of soils, vegetation, climate, or geomorphology. May be repeated if topic differs. LEC

GEOG 350 Physical Geography of Africa (3). N This course is a survey of the basic physical features of the African continent including structure and relief, rivers and lakes, soils and mineral resources. It includes characteristics and processes of African climates, and the ecology of Africa's four major biomes: tropical rain forest, savanna, steppe, and desert. Climatic and environmental variations of the past, emergence of humankind, and development of pastoral and farming systems are discussed. Contemporary environmental concerns also include deforestation and desertification, the impacts of drought, methods for monitoring African environments, and Africa's prospects in a 21st century suffering from global warming. (Same as AAAS 350.) LEC

GEOG 351 Africa's Human Geographies (3). NW S/W An introduction to historical, cultural, social, political, and economic issues in

Africa from a geographic perspective. The course begins with the historical geography of humanity in Africa, from ancient times through to the present. Other topics include cultural dynamics, demography, health, rural development, urbanization, gender issues, and political geography. Case studies from Eastern and Southern Africa will be used to illustrate major themes. (Same as AAAS 351.) LEC

GEOG 358 Principles of Geographic Information Systems (4). N An introduction to computer-based analysis of spatial data. Covers basic principles of collecting, storing, analyzing, and displaying spatial data. Emphasis is on problem-solving activities using common spatial analytical techniques (e.g., map overlay). The student will gain extensive hands-on experience with state-of-the-art GIS software. LEC

GEOG 375 Intermediate Human Geography (3). S An examination of processes of cultural-economic interaction and patterns of human activity on a global scale. The topics cover the whole spectrum of human geography, with focus on urban-economic development, innovation and diffusion, and trade. Each week the third hour will be devoted to discussion of topics dealt with in lectures presented during the first two hours. Prerequisite: Introductory course in Geography or consent of the instructor. LEC

GEOG 377 Urban Geography (3). S This course explores the city from the multiple perspectives of its inhabitants. The cultural viewpoints of place, gender, age, and ethnicity are stressed. Traditional topics such as urban hierarchy, functions of the city, suburbanization, and ongoing changes in core and peripheral areas also receive attention. The distinctive landscapes of individual North American cities are emphasized, but examples also are drawn from throughout the world. LEC

GEOG 379 Topics in Cultural Geography: ____ (1-3). S An investigation of special topics in Cultural Geography. May include course work under headings of culture theory, material culture, language, foodways, or religion. May be repeated if topic differs. LEC

GEOG 390 Geography of the United States and Canada (3). S A study of the different physical, economic, and cultural settings in the United States and Canada which form the basis for the various forms of livelihood. Emphasis on the United States. (Same as AMS 390.) Prerequisite: An introductory geography course or background in the United States or Canadian history, social science, or culture or consent of instructor. LEC

GEOG 396 China's Geographies (3). NW S/W An appreciation of how China and the Chinese way of life has evolved. Confucianism, Buddhism, Taoism, and Communism are examined as the bases of Chinese culture values. These values are then set against a highly varied physical and economic landscape to show how an elaborate and complex society has come into being. Contemporary developments are discussed only as a part of the entire spectrum of Chinese history. No prerequisite required. LEC

GEOG 397 Geography of Kansas and the Plains (3). S A study of the different physical, economic, and cultural settings in Kansas and the Plains that form the basis for various kinds of livelihood. LEC

GEOG 399 Topics in Regional Studies: ____ (1-3). S An investigation of special topics in Regional Studies. May include course work related to a specific country or region. May be repeated if topic differs. LEC

GEOG 410 Human Biogeography, Honors (3). N Principles of evolution and earth change are used to examine distributions of human populations, wealth, and resources. Readings from the current literature will be included. Lecture and discussion. (Same as BIOL 410.) Prerequisite: BIOL 152 or 153 or GEOG 107 and membership in the University Honors Program or consent of instructor. LEC

GEOG 418 Internship in Production Cartography (1-3). N Theory and practice of producing maps and other related graphics using photo-mechanical and automated techniques. Involves a weekly consultation session and laboratory time in K.U. Cartographic Services. Prerequisite: Completion of GEOG 311 with a grade of “B” or better and consent of instructor. LEC

GEOG 433 Biogeography Field and Laboratory Techniques (3). N This course provides undergraduate students with practical experience in field data collection techniques and laboratory data analysis methods. During the first half of the semester, students will work in the field using a variety of methods to measure such vegetation characteristics as cover, density, biomass, leaf area, and canopy architecture. Students will gain experience in the use of field instruments including a spectroradiometer, and in techniques for quantifying biophysical attributes of vegetation. During the later part of the course, students will learn to summarize their field data and examine relationships between the vegetation attributes and measurements made using remote sensing instruments. Prerequisite: Recommended: GEOG 316 or an introductory statistics equivalent. FLD

GEOG 458 Geographical Information Systems: ____ (1-6). N An introduction to the organization and components of geographic information systems and their software. Fundamental concepts and their implementation with applications to physical and human systems. LEC

GEOG 490 Geographic Internship (1-6). N Supervised practical experience. The student submits a proposal describing the internship prior to enrollment. Upon acceptance, regularly scheduled meetings with the adviser provide assistance, guidance and evaluation of progress in the professional experience. A written summary of the experience or outcomes of the research project are prepared inde-

pendently by the student, a representative of the host agency, and the adviser. Total credit not to exceed six hours. Prerequisite: Fifteen hours of geography and permission of instructor. FLD

GEOG 498 Special Topics in Geography: ____ (1-5). U Prerequisite: Fifteen hours of geography. IND

GEOG 499 Honors Course in Geography (2-3). U Open to students with nine hours of upper level credit in geography, an average of at least 3.5 in all geography courses, and an overall average of at least 3.25. Includes the preparation of an honors paper and its defense before a committee of at least two regular faculty members. IND

GEOG 510 Human Factors (4). N An introduction to the concepts and theories underlying the study of human-technological systems. Human-machine interfaces and system properties and the environment are considered. Lecture-discussion sessions are supplemented by computer-supported laboratory and research activities. (Same as INDD 510.) LEC

GEOG 511 Intermediate Cartography: ____ (1-6). N An investigation of special topics in cartography. Can be repeated for different topics. Prerequisite: A course in cartography and consent of instructor. LEC

GEOG 513 Cartographic Design (3). S Graphic elements and their role in the physical and perceptual structure of the map image. Concepts and principles of design with particular emphasis on the figure-ground relationships, color, and lettering. Laboratory fee and deposit required. Prerequisite: GEOG 311 or GEOG 717. LEC

GEOG 514 Visualizing Spatial Data (4). N Students use Visual Basic or other currently prominent programming language to visualize spatial data. Early projects cover basic principles such as color manipulation and spatial transformations. Later projects involve developing more sophisticated software for data presentation, data exploration, and map animation. Prerequisite: Some experience with Visual Basic or other programming language. LAB

GEOG 515 Behavioral Systems (3). S An introductory course in behavioral geography. Examines the development of spatial cognitions (acquisition, organization, and use of environmental knowledge), and spatial patterns of behavior based on those cognitions, at scales ranging from personal space to world views. LEC

GEOG 516 Applied Multivariate Analysis in Geography (3). N An introduction to the application of multivariate statistical analysis in geography. Techniques covered include univariate and multivariate analysis of variance, multiple regression, logistic regression, principle components analysis, and spatial regression. Practical applications of the techniques in a geographical research context are emphasized. Students will learn how to use statistical packages such as SPSS. Prerequisite: GEOG 316 or equivalent. LEC

GEOG 517 Data Handling and Map Symbolization (3). N An analysis of methods for manipulating and symbolizing spatial data. Techniques studied include dot, choropleth, proportional symbols, and isarithmic (contour) mapping. Topics covered include data classification, the use of color, and automated methods of interpolation (triangulation, inverse distance, and kriging). Emphasis is on developing maps that can be presented to the general public, although some consideration is given to visualization software that can be utilized by individuals to explore spatial data. Prerequisite: GEOG 111 or GEOG 210 or GEOG 311. LEC

GEOG 519 History of Cartography (3). H A history of mapmaking worldwide from its origins to the present day. Emphasis on maps as historical records of evolving civilizations and cultural landscapes and methods of studying early maps. (Same as HIST 546.) LEC

GEOG 521 Microclimatology (3). N A study of climatic environments near the earth-atmosphere interface. Consideration of rural climates in relation to agriculture and urban climates as influenced by air pollution and other factors. Emphasis is on physical processes in the lower atmosphere, distribution of atmospheric variables, the surface energy budget, and water balance. (Same as ATMO 521.) Prerequisite: ATMO 105 and MATH 106 or MATH 121. LEC

GEOG 526 Remote Sensing of Environment (4). N Introduction to study of the environment through air photos and satellite imagery, including principles of remote sensing, interactions of electromagnetic energy with the atmosphere and earth's surface, aerial photography, satellite systems, and sensors (electro-optical, thermal, and radar). Emphasis in the latter part of the course is on such applications as global monitoring, land cover mapping, forestry, agriculture, and oceanography. Laboratory emphasizes visual interpretation of aerial photography and satellite imagery, and an introduction to digital image processing in the department's NASA Earth Science Remote Sensing Laboratory. Prerequisite: Basic Algebra. GEOG 358 recommended. LEC

GEOG 531 Topics in Physical Geography: ____ (1-3). N An investigation of special topics in physical geography. May include specific course work under the headings of geomorphology, climatology, soils, vegetation, quaternary, paleoenvironments, hydrology, etc. May be repeated, if topic differs. LEC

GEOG 532 Geoarchaeology (3). N Application of the concepts and methods of the geosciences to interpretation of the archeological record. The course will focus primarily on the field aspects of geoarchaeology (e.g., stratigraphy, site formational processes, and landscape reconstruction), and to a lesser extent on the array of labora-

tory approaches available. (Same as ANTH 517.) Prerequisite: GEOG 104, ANTH 110, or ANTH 310. LEC

GEOG 535 Introduction to Soil Geography (4). U This course focuses on the physical and chemical properties of soils. The student is introduced to the importance of clay minerals and organic content among other soil properties as they affect soil use and variability in a geographic context. Field trips and laboratory section required. Prerequisite: GEOG 104 or GEOG 331 or GEOL 101 or BIOL 104, or consent of instructor. LEC

GEOG 536 Landscape Ecology (3). N Landscape ecology is the study of spatial variation in landscapes at a variety of scales. It includes the biophysical and societal causes and consequences of landscape heterogeneity, linking natural sciences with related human disciplines. Its core themes address the spatial pattern of landscapes; relationships between pattern and process in landscapes; relationships between human activity and landscape pattern, process and change; and the effect of disturbance on the landscape. Prerequisite: GEOG 104 or GEOG 148 or EVRN 148 or BIOL 104, or consent of instructor. LEC

GEOG 537 Elements of Plant Geography (3). N An introduction to spatial and temporal variation in natural plant populations and communities. Included is an introduction to methods of analysis, and an overview of structure and process in the earth's major biomes. Prerequisite: GEOG 331; or an introductory biology/botany course and GEOG 104; or consent of instructor. LEC

GEOG 541 Geomorphology (4). N A critical study of land forms in relation to tectonics, climatic environment, and geologic processes. The use of geomorphic methods in the interpretation of Cenozoic history is emphasized. Laboratory exercises in analysis of field observations, maps, and photographs. Required field trip and fee. (Same as GEOL 541.) Prerequisite: GEOL 101 and GEOL 103, GEOG 104 and GEOG 105, or GEOL 103 and GEOL 304. LEC

GEOG 550 Environmental Issues in Africa (3). S Acquaints students with the complexities of debates on environmental problems in Sub-Saharan Africa. Topics addressed may include deforestation, desert expansion, wildlife conservation, soil erosion, climate change, coral reef destruction, water resources development, mangrove preservation, the environmental effects of war, industrialization, and urbanization. Class presentations and projects synthesize the perspectives of both human and physical geography. (Same as AAAS 551.) Prerequisite: GEOG 104 or permission of instructor. LEC

GEOG 551 Intermediate Economic Geography (3). S A lecture course dealing with the principles of location theory, resource utilization and regional specialization of economic activities. Economic concepts, such as rent payment for agricultural and mineral resources, scale and agglomeration economies etc., are applied to various physical, demographic, and cultural settings of major world regions. Special emphasis is placed on the basic principles of and recent changes in patterns of world trade, international investment, and economic development. Prerequisite: GEOG 375 or introductory economics or consent of instructor. LEC

GEOG 552 Topics in Urban/Economic Geography: ____ (1-3). S An investigation of special topics in urban/economic geography. May include specific course work under the headings of energy, economic development, international trade, environmental perception, housing, transportation, and migration. May be repeated. LEC

GEOG 553 Geography of African Development (3). NW S Acquaints students with the values of social parameters of African agricultural and pastoral practice. Topics include customary land rights, African perspectives on the natural world, gender issues in African agriculture, and the urbanization of African cultures. The course also contrasts African views with those of Western development practitioners and donor agencies. Case studies from different countries are used to highlight the continent's regional differences. (Same as AAAS 553.) LEC

GEOG 556 Geography of the Energy Crisis (3). S A discussion and analysis of the basic facts and causes of energy problems on a national and world scale. Examines current production, consumption, efficiency, reserves, conservation, and other energy policy options, including adjustments that will affect consumer use, national politics, and strategic issues. Prerequisite: GEOG 102 or GEOG 375. LEC

GEOG 557 Cities and Development (3). S An intermediate level course in urban geography, with an emphasis on cities in the developing world. Example cities in Latin America and the Caribbean, Sub-Saharan Africa, the Middle East, South Asia, and/or Southeast Asia may be examined. The main focus is on the intersection between urbanization and economic development, but social, political, and cultural aspects of development in cities are considered. Other topics include the geographic impacts of European colonialism, urbanization and industrialization, rural-to-urban migration, urban structure and spatial dynamics, urban planning, and environmental sustainability. LEC

GEOG 558 Intermediate Geographical Information Systems (4). N An intermediate level course in geographic information science designed for advanced undergraduate and graduate level students who already have an introductory understanding of GIS. Emphasis will be placed on the application of spatial analytical techniques to geographical problem-solving. Topics include spatial data structures, interpolation techniques, terrain analysis, cost surfaces, and database management technique. Students will apply knowledge gained in lecture and reading to natural

Course descriptions and degree requirements are subject to change. Consult your department or dean's office.

A Directory of Courses is included on pages 5-6 as a guide for finding course descriptions.

resource, urban, and scientific applications using state-of-the-art GIS software. Prerequisite: GEOG 358 or consent of instructor. LEC

GEOG 570 Geography of American Indians (3). NW S A survey of the culture and history of selected indigenous peoples of the Americas. Emphasis is placed on the environmental setting, the settlement and subsistence patterns, and the impact of European colonization. Discussion includes present-day ethnic and resource issues. LEC

GEOG 571 Topics in Cultural Geography: ____ (1-3). S An investigation of special topics in cultural geography. May include specific course work under the headings of cultural theory and methodology, material culture, foodways, religion, and similar topics. May be repeated, if topic differs. LEC

GEOG 572 Political Geography (3). S Acquaints students with the theories and methods of political geography. Topics include geographical studies of: states, nations, and nationalism; territories and territoriality; geopolitics; and elections. Case studies from various regions of the world are included with an emphasis on the developing world. Prerequisite: GEOG 102 or equivalent or consent of instructor. LEC

GEOG 573 Advanced Geographic Analysis (3). S A course designed to teach students how to define, gather, process, evaluate and present geographic research. Its emphasis is field work and original data gathering versus library research. Prerequisite: Previous course work in geography and/or permission of instructor. LEC

GEOG 575 Geography of Population (3). S Describes and analyzes the distribution of human populations and spatial relations among and within varying types of settlements. Prerequisite: GEOG 102 or GEOG 375. LEC

GEOG 576 Cultural Geography of the United States (3). S Distributions of major culture elements including folk architecture, religion, dialect, foodways, and political behavior are systematically studied from a predominately historical perspective. These discussions are followed by a survey of the major culture regions in America. Although not absolutely necessary, familiarity with concepts treated in any of the following courses would be helpful: AMS 100, AMS 110, ANTH 108, ANTH 308, GEOG 102, or GEOG 390. (Same as AMS 576.) LEC

GEOG 579 Geography of American Foodways (3). An interdisciplinary approach to food that explores the diversity of eating habits across the United States and the role of food as an indicator of cultural identity and change. Current regional and ethnic food consumption patterns are stressed. Topics include multiculturalism and regional identity, the symbiotic relationship between restaurant food and home cooking, the recent interest in farmers' markets and organic foods, and the importance of the food industry and the popular press in setting trends. (Same as AMS 579.) LEC

GEOG 591 Geography of Latin America (3). SC S/W A study of the different physical, economic, and cultural settings in Latin America which form the basis for the various forms of livelihood. LEC

GEOG 592 Middle American Geography (3). S This regional study of the natural environments and cultural-historical backgrounds of Mexico, Central America, and the Caribbean details the physical and historical processes that have shaped the cultural landscape. LEC

GEOG 593 Central American Peoples and Lands (3). S This is a study of the natural and cultural history of the region's lands and peoples that focuses on the cultural geography of the surviving indigenous populations, including their culture area, culture history, cultural landscape, and cultural ecology. LEC

GEOG 594 Geography of the Former Soviet Union (3). S/W An analysis of the spatial organization of the successor states to the USSR. A study of the diverse human and natural resources, demographic, cultural, and economic conditions. Prerequisite: An introductory geography course or background in Russian-East European history, social science, or culture, or consent of instructor. LEC

GEOG 595 Geography of Eastern Europe (3). S/W A study of nations and regions of Eastern Europe, excluding Russia. Prerequisite: An introductory geography course or background in Slavic-East European history, social science, or culture or consent of instructor. LEC

GEOG 596 Geography of China (3). S/W A detailed description and analysis of geographic patterns in both historic and modern China. Prerequisite: An introductory geography course or background in Chinese history, social science, or culture, or consent of instructor. LEC

GEOG 597 Geography of Brazil (3). S Study of geographic factors, physical and cultural, that are basic to understanding the historical development of Portuguese South America and the contemporary and cultural geography of Brazil. Course also includes a survey of Brazil's South American neighbors. LEC

GEOG 657 Geographic Models (3). S Examination of several methodologies and specific techniques from geographical and operations research having proven applicability to public facility location decisions. The course emphasizes hands-on student experience with canned computer programs and real world problems. Prerequisite: An introductory course in either urban planning, transportation, geography, urban geography, or consent of instructor. LEC

GEOG 658 Topics in Geographic Information Science: ____ (1-6). An investigation of special topics in geographic information science. May include specific course work under the headings of methodol-

ogy, basic research, thematic or regional applications, geographic information systems (GIS), Global Positioning System (GPS), and geostatistics. May be repeated if topic differs. LEC

GEOG 670 Cultural Ecology (3). S Investigation of the interrelations between socio-cultural systems and the natural environment, including a survey of major theories and descriptive studies. (Same as ANTH 695.) Prerequisite: An introductory course in geography or anthropology. LEC

GEOG 710 Information Design (3).

GEOG 711 Advanced Cartography: ____ (3).

GEOG 713 Practicum in Cartography (1-6).

GEOG 714 Field Experience (3).

GEOG 716 Advanced Geostatistics (3).

GEOG 719 Development of Geographic Thought (2-3).

GEOG 726 Remote Sensing of Environment II (4).

GEOG 731 Topics in Physical Geography: ____ (1-3).

GEOG 733 Advanced Biogeography Field and Laboratory Techniques (3).

GEOG 735 Soil Genesis, Classification, and Distribution (3).

GEOG 741 Advanced Geomorphology (1-3).

GEOG 749 Topics in Stable Isotopes in the Natural Sciences: ____ (2-3).

GEOG 751 Analysis of Regional Development (3).

GEOG 752 Topics in Urban/Economic Geography: ____ (1-3).

GEOG 756 Energy Problems and the Economic-physical Environment (2-3).

GEOG 758 Geographic Information Science (4).

GEOG 771 Topics in Cultural Geography: ____ (1-3).

GEOG 772 Problems in Political Geography (3).

GEOG 773 Humanistic Geography (3).

GEOG 775 Proseminar in Population Geography (3).

GEOG 790 North American Regions: ____ (3).

GEOG 791 Latin American Regions: ____ (3).

GEOG 794 Regions of the Former U.S.S.R. (3).

GEOG 795 European Regions: ____ (3).

GEOG 796 Asian Regions: ____ (2-3).

Geology

Chair: Robert H. Goldstein

Lindley Hall, 1475 Jayhawk Blvd., Room 120

Lawrence, KS 66045-7613

(785) 864-4974, www.ku.edu/~geology

Degrees offered: B.A., B.S., M.S., Ph.D.

Geology is an interdisciplinary science that applies the principles of chemistry, physics, biology, and other fields to the study of the earth, its resources, and its natural processes. The field has many subdisciplines and specialties that offer stimulating challenges and careers. KU offers broad undergraduate programs in geology and geophysics but emphasizes research in paleontology, sedimentology, crustal evolution, hydrogeology, seismology, and geomorphology.

Courses for Nonmajors

The department offers several courses of interest to nonmajors who wish to learn more about geology and related areas such as environmental science, oceanography, and economic resources. Principal courses include GEOL 101, GEOL 105, GEOL 121, GEOL 171, GEOL 302, and GEOL 351. GEOL 103 may be taken in conjunction with either GEOL 101 or GEOL 105 to fulfill the CLAS laboratory science requirement. GEOL 304, GEOL 360, and GEOL 552 all offer opportunities to study more specialized aspects of the earth and do not require advanced prerequisites.

Majors

The B.A. program allows many free electives for background courses in the sciences or liberal arts. The program permits study of traditional geology (with emphasis on the solid earth, the earth's surface, or environ-

mental geology and natural resources), environmental geology (with emphasis on water or urban environmental geology), or an individually tailored program.

The B.S. program provides intensive training in geology and other sciences. B.S. majors may emphasize traditional geology, environmental geology (with a specialized track in hydrogeology), engineering geology, or geophysics. The hydrogeology track, the engineering geology option, and the geophysics option combine basic training in geology with training in mathematics, engineering, physics, and geophysics. The environmental geology option combines training in geology with many different sciences.

Degree requirements may be altered to suit particular needs of a student upon petition to the undergraduate studies committee and in consultation with a geology faculty adviser. Special consideration is given to students with strong backgrounds in supporting sciences and students with superior records who decide to major in geology late in their programs.

First- and Second-year Preparation. Students interested in geology, especially in the B.S. degree, should see a department adviser as soon as possible. They should enroll in mathematics, chemistry, and English in addition to Introduction to Geology and electives. Students should take GEOL 360 as soon as possible.

Advising. Developing a strong relationship with a faculty adviser helps students get the most out of their educational programs in the shortest time. Most courses for majors are offered in only one semester each year. Advisers can guide the student through complexities of the curriculum or into a specialized program.

Requirements for the B.A. Major. In addition to College requirements, these courses are required:

MATH 115 Calculus I (3) or MATH 121 Calculus I (5)	3-5
CHEM 184 Foundations of Chemistry I (5) or CHEM 125 College Chemistry (5)	5
PHSX 111 Introductory Physics (3) or PHSX 114 College Physics I (4) or PHSX 211 General Physics I (4)	3-4
BIOL 100 Principles of Biology	3
BIOL 102 Principles of Biology Laboratory	2
EECS 128 Introduction to Computer-based Information Systems (3) or EECS 138 Introduction to Computing: ____ (3)	3
Geology Core (24 hours)	
GEOL 101 Introduction to Geology (3) and GEOL 103 Geology Fundamentals Laboratory (2)	5
GEOL 311 Mineralogy and Structure of the Earth	3
GEOL 331 Sedimentology and Surface Processes	4
GEOL 360 Field Investigation	2
GEOL 521 Paleontology	3
GEOL 560 Introductory Field Geology	3
GEOL 562 Structural Geology	4

Option A: General Geology

College Requirements and Geology Core Courses

Geology Electives: A minimum of 15 hours in geology or related courses. Several possible tracks of upper-level course work are given below. No more than 40 hours in geology may be counted toward the minimum 124 hours required for graduation.

Track 1: Solid Earth

GEOL 312 Mineral Structures and Equilibria Laboratory (1)	
GEOL 512 Igneous and Metamorphic Petrology (3) and GEOL 513 Petrology Laboratory (1)	
GEOL 532 Stratigraphy (4)	
GEOL 572 Geophysics (3) or GEOL 573 Geodynamics and Plate Tectonics (3)	

Track 2: Surface Earth

GEOL 171 Earthquakes and Natural Disasters (3)	
GEOL 351 Environmental Geology (3)	
GEOL 532 Stratigraphy (4)	
GEOL 541 Geomorphology (4)	
GEOL 722 Paleoecology (3)	

Track 3: Geology and Natural Resources

GEOL 351 Environmental Geology (3)	
GEOL 391 Special Studies in Geology: Water Resources (3)	
GEOL 541 Geomorphology (4)	

GEOL 572 Geophysics (3)

EVRN 332 Environmental Law (3) (Prerequisite: EVRN 148)

Option B: Environmental Geology

College Requirements and Geology Core Courses

Geology Electives: A minimum of 15 hours in geology or related courses.

Several possible tracks of upper-level course work are given below. Students may choose from these or select other courses in consultation with an adviser. No more than 40 hours in geology may be counted toward the minimum 124 hours required for graduation.

Track 1: Water, Geology, and the Environment

GEOL 302 Oceanography (3)	
GEOL 351 Environmental Geology (3)	
GEOL 391 Special Studies in Geology: Water Resources (3)	
GEOL 541 Geomorphology (4)	
GEOL 552 Introduction to Hydrogeology (3)	
ATMO 515 Energy and Water Balance (3)	
CE 477 Introduction to Environmental Engineering and Science (3)	
BIOL 660 Limnology and Aquatic Ecology (3)	

Track 2: Urban Environmental Geology

GEOL 351 Environmental Geology (3)	
ATMO 525 Air Pollution Meteorology (3)	
CE 477 Introduction to Environmental Engineering and Science (3)	
GEOG 304 Environmental Conservation (3)	

Other Elective Courses

GEOL 532 Stratigraphy (4)	
ATMO 105 Introductory Meteorology (3)	
BIOL 414 Principles of Ecology (3)	
BIOL 460 Plants and Humans (3)	
GEOG 558 Intermediate Geographical Information Systems (4)	

Requirements for the B.S. Degree in Geology:

General Geology Option

Satisfaction of the College English requirement	6-9
COMS 130 Speaker-Audience Communication (3) or COMS 150 Personal Communication (3) (or exemption)	0-3
Two courses in the humanities	6-10
Two courses in the social sciences (an introductory course in economics is recommended)	6-8
MATH 121 and MATH 122 Calculus I and II (recommended) (10) or MATH 115 and MATH 116 plus MATH 122 Calculus (11)	10-11
PHSX 211 and PHSX 212 General Physics I and II	8
CHEM 184 and CHEM 188 Foundations of Chemistry I and II	10
BIOL 150 Principles of Molecular and Cellular Biology (4) and BIOL 152 Principles of Organismal Biology (4)	8
EECS 128 Introduction to Computer-based Information Systems (3) or EECS 138 Introduction to Computing: ____ (3) or C&PE 121 Introduction to Computers in Engineering (3)	3

Geology (49 hours)

GEOL 101 Introduction to Geology (3) and GEOL 103 Geology Fundamentals Laboratory (2)	5
GEOL 311 Mineralogy and Structure of the Earth	3
GEOL 312 Mineral Structures and Equilibria Laboratory	1
GEOL 331 Sedimentology and Surface Processes	4
GEOL 360 Field Investigation	2
GEOL 512 Igneous and Metamorphic Petrology	3
GEOL 513 Petrology Laboratory	1
GEOL 521 Paleontology	3
GEOL 523 Paleontology Laboratory	1
GEOL 532 Stratigraphy	4
GEOL 560 Introductory Field Geology	3
GEOL 561 Field Geology	3
GEOL 562 Structural Geology	4
GEOL 572 Geophysics (3) or GEOL 573 Geodynamics and Plate Tectonics (3)	3
At least 9 hours in geology courses numbered 500 or above	9
This can include 3 hours of GEOL 399. GEOL 105, GEOL 304, or GEOL 121 can also count if taken before the student has completed 60 hours. Electives may include an upper-division course in statistics (MATH 365 or BIOL 570).	

Note: No more than 50 hours in geology may be counted toward the minimum 124 hours required for graduation.

Requirements for the B.S. Degree in Geology:

Engineering Geology Option

ENGL 101, ENGL 102, and ENGL 362	9
COMS 130 Speaker-Audience Communication (3) or COMS 150 Personal Communication (3) (or exemption)	0-3
Two courses in the humanities	6-10
ECON 104 Introductory Economics	4
One additional course in the social sciences	3
MATH 121, MATH 122, MATH 220, and MATH 290 and its accompanying section in the School of Engineering	15
CHEM 184 and CHEM 188 Foundations of Chemistry I and II	10
PHSX 211 and PHSX 212 General Physics I and II	8
CE 201 Statics	2
CE 300 Dynamics	3
CE 311 Strength of Materials	3

The Treatise on Invertebrate Paleontology, the standard national reference, is published by KU's Paleontological Institute.

The Kansas Geological Survey, a research and development organization at KU, studies energy, minerals, ground water, and seismic activity in Kansas.

CE 330 Fluid Mechanics	4
CE 455 Hydrology	3
CE 487 Soil Mechanics	4
EECS 128 Introduction to Computer-based Information Systems (3) or	
C&PE 121 Introduction to Computers in Engineering (3) or	
EECS 138 Introduction to Computing: _____ (3)	3

Geology (45-51 hours)

GEOL 101 Introduction to Geology (3) and	
GEOL 103 Geology Fundamentals Laboratory (2) or	
GEOL 105 History of the Earth (3)	3-5
GEOL 311 Mineralogy and Structure of the Earth	3
GEOL 312 Mineral Structures and Equilibria Laboratory	1
GEOL 331 Sedimentology and Surface Processes	4
GEOL 351 Environmental Geology	3
GEOL 360 Field Investigation	2
GEOL 512 Igneous and Metamorphic Petrology	3
GEOL 513 Petrology Laboratory	1
GEOL 541 Geomorphology	4
GEOL 560 Introductory Field Geology	3
GEOL 561 Field Geology	3
GEOL 562 Structural Geology	4
GEOL 572 Geophysics (3) or	
GEOL 573 Geodynamics and Plate Tectonics (3)	3
Three additional geology or civil engineering courses,	
at least two of which must be from the following:	8-12
GEOL 521 Paleontology (3)	
GEOL 532 Stratigraphy (4)	
GEOL 535 Petroleum and Subsurface Geology (4)	
GEOL 715 Geochemistry (3)	
GEOL 751 Physical Hydrogeology (3)	
CE 770 Concepts of Environmental Chemistry (2) and	
CE 771 Environmental Chemical Analysis (1)	
Electives may include an upper-division course in statistics	
(MATH 365 or BIOL 570).	

Note: Graduation totals must include 74 hours of nongeology courses and may exceed 124 hours.

Requirements for the B.S. Degree in Geology: Environmental Geology Option

Satisfaction of the College English requirement	6-9
COMS 130 Speaker-Audience Communication (3) or	
COMS 150 Personal Communication (3) (or exemption)	0-3
Two courses in the humanities	6-10
Two courses in the social sciences (an introductory course in	
economics is recommended)	6-8
MATH 121 and MATH 122 Calculus I and II (10) or	
MATH 115 and MATH 116 plus MATH 122 Calculus (11) ..	10-11
PHSX 211 and PHSX 212 General Physics I and II (recommended) or	
PHSX 114 and PHSX 115 College Physics I and II	8
CHEM 184 and CHEM 188 Foundations of Chemistry I and II	10
BIOL 150 Principles of Molecular and Cellular Biology (4) and	
BIOL 152 Principles of Organismal Biology (4)	8
EECS 128 Introduction to Computer-based Information Systems (3) or	
EECS 138 Introduction to Computing: _____ (3) or	
C&PE 121 Introduction to Computers in Engineering (3)	3

Geology (50 hours)

GEOL 101 Introduction to Geology (3) and	
GEOL 103 Geology Fundamentals Laboratory (2)	5
GEOL 311 Mineralogy and Structure of the Earth	3
GEOL 331 Sedimentology and Surface Processes	4
GEOL 351 Environmental Geology	3
GEOL 360 Field Investigation	2
GEOL 521 Paleontology	3
GEOL 532 Stratigraphy	4
GEOL 541 Geomorphology	4
GEOL 552 Introduction to Hydrogeology	3
GEOL 560 Introductory Field Geology	3
GEOL 562 Structural Geology	4
GEOL 572 Geophysics	3
Additional courses to total at least 9 hours numbered 500 or above	
or other courses approved by adviser. Recommended:	9
GEOL 391 Special Studies in Geology: Water Resources (3)	
GEOL 535 Petroleum and Subsurface Geology (4)	
GEOL 715 Geochemistry (3)	
GEOL 751 Physical Hydrogeology (3)	
CE 770 Concepts of Environmental Chemistry (2) and	
CE 771 Environmental Chemical Analysis (1)	
GEOG 535 Introduction to Soil Geography (4)	
GEOG 558 Intermediate Geographical Information Systems (4)	
GEOL 753 Chemical Hydrogeology (3)	
BIOL 400 Fundamentals of Microbiology (3)	
C&PE 517 Reservoir Engineering I (4)	

Note: No more than 50 hours in geology may be counted toward the minimum 124 hours required for graduation.

Environmental Hydrogeology Track. Besides the general program above, a specialized track in hydrogeology satisfies degree requirements. In addition to College, supporting science, and geology

courses, the environmental hydrogeology track requires the following mathematics and civil engineering/physics courses:

MATH 220, MATH 290, and CE 250	5
CE 330 Fluid Mechanics (4) or PHSX 623 Physics of Fluids (3) ...	3-4

Technical Electives (9 hours). These normally are chosen from courses numbered 500 or above in geology, physics, mathematics, chemistry, engineering or computer science. Courses numbered below 500 must be approved by a geology adviser.

Requirements for the B.S. Degree in Geology: Geophysics Option

College English and Principal Course Requirements (21 hours)	
ENGL 101, ENGL 102, and a third course as specified by the	
College of Liberal Arts and Sciences	9
Courses in humanities and social sciences	12
(At least 3 hours must be taken in each area. An introductory	
course in economics is recommended.)	
Chemistry, Mathematics, Computer Science, Engineering (28-31 hours)	
EECS 138 Introduction to Computing: _____ (3) or	
demonstrate equivalent programming skills	0-3
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
MATH 121 and MATH 122 Calculus I and II	10
MATH 223 Vector Calculus (3) and	
MATH 290 Elementary Linear Algebra (2)	5
MATH 320 Elementary Differential Equations	3

Physics (17 hours)

PHSX 211 and PHSX 212 General Physics I and II	8
PHSX 313 General Physics III	3
PHSX 521 Mechanics I	3
PHSX 531 Electricity and Magnetism	3

Geology (33 hours)

GEOL 101 Introduction to Geology (3) and	
GEOL 103 Geology Fundamentals Laboratory (2)	5
GEOL 311 Mineralogy and Structure of the Earth	3
GEOL 331 Sedimentology and Surface Processes	4
GEOL 360 Field Investigation	2
GEOL 512 Igneous and Metamorphic Petrology	3
GEOL 560 Introductory Field Geology	3
GEOL 562 Structural Geology	4
GEOL 572 Geophysics (3) or	
GEOL 573 Geodynamics and Plate Tectonics (3)	3
Two of these four courses in addition to geology courses above: ..	6
GEOL 572 Geophysics (3)	
GEOL 573 Geodynamics and Plate Tectonics (3)	
GEOL 575 Seismic Exploration (3)	
GEOL 577 Environmental Geophysics (3)	

Technical Electives (9 hours). These normally are chosen from courses numbered 500 or above in geology, physics, mathematics, chemistry, engineering, or computer science. Courses numbered below 500 must be approved by a geophysics adviser.

Free Electives (12 hours)

Graduation Requirements. Students must earn a grade-point average of 2.0 in both physics and geology courses.

Summer Field Courses. All undergraduate degree programs require field courses during two summers. Students should plan to take GEOL 360 in the summer after completing the introductory course. GEOL 560 and GEOL 561 (if required by the program) ideally are taken in the summer between the junior and senior years. Substantial scholarship support is available for geology majors who enroll in those courses.

Requirements for the Minor. The minor requires 18 to 23 hours of geology courses, of which 12 hours must be junior/senior hours or higher (courses numbered 300 or above).

Required Courses

GEOL 101 Introduction to Geology (3) and	
GEOL 103 Geology Fundamentals Laboratory (2)	5

Recommended Courses (necessary as prerequisites for many upper-division courses)

GEOL 311 Mineralogy and Structure of the Earth (3) or	
GEOL 331 Sedimentology and Surface Processes (4)	3-4

Students must work with an adviser to select courses to complete the requirements for the minor. Students must turn in a signed Geology Minor Advising form and a Minor Declaration Form to the department of Geology, 120 Lindley Hall, before taking any courses numbered 500 or above.

Combined Degree Programs. A student may combine an interest in geology with a degree in business, education, or journalism.

Honors. The honors program increases interest in scholarship, offers the maximum intellectual challenge to superior students, and provides an opportunity for undergraduate research. A student may enter the program by invitation of the department honors program committee or approval of an application to that committee. Information is available from the department chair or the undergraduate studies committee chair.

Scholarships

The department awards scholarships from its endowment to meritorious incoming or continuing students in geology. Scholarships also are awarded to students enrolled in Field Camp or Field Investigation. For information, contact the chair.

Career Opportunities

Opportunities include environmental geology, engineering geology, and hydrogeology, as well as the oil and minerals industries, research, and teaching. Practice as a professional geologist often requires course work and training beyond the baccalaureate level.

Licensure. Formal study of geology at an accredited college or university is a principal requirement for becoming licensed to practice geology. During the senior year, students who plan to become licensed geologists should take the Fundamentals of Geology examination, offered twice each year. Information on registration is available from the department office or from the Web site of the Kansas Board of Technical Professions, www.accesskansas.org/ksbtp. After passing the examination and after further practice, candidates can sit for the Practice of Geology examination to become licensed. Regulations for licensure may vary from state to state.

● Geology Courses

GEOL 101 Introduction to Geology (3). NE N Introduction to the principles of earth science. Study of the formation, occurrence, and structure of minerals and rocks; action of streams, oceans, glaciers, and other agents in the formation and modification of the landscape; volcanism, earthquakes, and plate tectonics. This course with GEOL 103 satisfies the College laboratory science requirement. Concurrent enrollment in GEOL 103 is recommended for students taking both. LEC

GEOL 102 Introduction to Geology, Honors (3). NE N Honors section of GEOL 101. An introduction to the principles of earth science. Study of the formation, occurrence, and structures of minerals and rocks; action of streams, oceans, glaciers, and other agents in the formation and modification of the landscape; mountain building volcanism, and earthquakes. Not open to students who have taken GEOL 101. This course with GEOL 103 satisfies the College laboratory science requirement. Concurrent enrollment in GEOL 103 is recommended for students taking both. LEC

GEOL 103 Geology Fundamentals Laboratory (2). N A course in geologic laboratory studies. This course plus GEOL 101 (Introduction to Geology), GEOL 102 (Introduction to Geology, Honors), GEOL 105 (History of the Earth), or GEOL 106 (History of the Earth, Honors) will satisfy the College laboratory science requirement. Gives students practical, hands-on experience with identifying earth materials (rocks, minerals, fossils) and understanding their relationships to earth processes, understanding topographic and geologic maps, interpreting results of surficial processes, and learning about deep-earth processes such as earthquakes. Includes short field trips to see geologic structures and results of local geologic processes. Prerequisite: Previous or concurrent enrollment in GEOL 101, GEOL 102, GEOL 105, or GEOL 106. LAB

GEOL 105 History of the Earth (3). NE N An introduction to the physical and biological history of the earth, the methods used to decipher earth history, and the development of the geological sciences. This course with GEOL 103 satisfies the College laboratory science requirement. Concurrent enrollment in GEOL 103 is recommended for students taking both. Not open to students who have taken GEOL 106 or GEOL 304. LEC

GEOL 106 History of the Earth, Honors (3). NE N Honors section of GEOL 105. An introduction to the physical and biological history of the earth, the methods used to decipher earth history, and the development of the geological sciences. This course with GEOL 103 satisfies the College laboratory science requirement. Concurrent en-

rollment in GEOL 103 is recommended for students taking both. Not open to students who have taken GEOL 105 or GEOL 304. LEC

GEOL 121 Prehistoric Life: DNA to Dinosaurs (3). NB N An introduction to the history of life and the origin and evolution of animals and plants during the earth's long history. The fossil record is interpreted by applying both biological and geological principles. LEC

GEOL 171 Earthquakes and Natural Disasters (3). NE N Addresses the subject of natural disasters with concentration on earthquake effects and their mitigation. Briefly treats volcanic eruptions, tidal waves, floods, global warming, severe weather, and catastrophic meteorite impacts from the perspective of geological and human significance. Provides a basic background into earth-science processes. LEC

GEOL 302 Oceanography (3). NE N Basic description of oceanography: description and discussion of the ocean as a dynamic system. Relationships between and dependence upon the interactions of submarine topography, water chemistry, wave action, and biota in understanding the ocean system. Review of part that humanity plays in perturbing the natural oceanic environment. Discussions of estuarine problems as related to the sea, cultural activities, and rivers. Prerequisite: An introductory science course. LEC

GEOL 304 Historical Geology (2). N A summary of the measurement of time, the history of life, and the earth's development and the tectonics and rock-forming episodes of North America. Not open to students who have taken GEOL 105, GEOL 106 or GEOL 121. Prerequisite: GEOL 101. LEC

GEOL 311 Mineralogy and Structure of the Earth (3). N Basic identification and properties of rocks and minerals in the context of whole-earth structure and evolution. Includes basic chemical equilibria for rock and mineral systems and their bearing on processes involved with formation and evolution of Earth's crust, mantle, and core. Two lectures and one lab per week. Prerequisite: GEOL 101, CHEM 125 or CHEM 184, and eligibility for MATH 121 or MATH 115. LEC

GEOL 312 Mineral Structures and Equilibria Laboratory (1). U A laboratory to accompany GEOL 311. Presents more rigorous analysis of the structures, compositions, and chemical equilibria governing the formation and stability of common rock-forming mineral systems. Prerequisite: GEOL 311 (may be taken concurrently), CHEM 125 or CHEM 184, and eligibility for MATH 121 or MATH 115. LAB

GEOL 315 Gemstones (3). N The properties, occurrence, description, determination, and mineral affinities of gems, ornamental stones, and gem materials. LEC

GEOL 331 Sedimentology and Surface Processes (4). N Physical, chemical, and biological processes in surface and near-surface environments applied to the recognition of the depositional environment, preservation, and alteration of sedimentary rocks. Field and laboratory study of sedimentary rocks with emphasis on interpretation of original depositional environments and alter processes affecting sedimentary rocks. Prerequisite: GEOL 101. LEC

GEOL 351 Environmental Geology (3). NE N An introductory course dealing with the implications of geologic processes and materials for civilization. Topics to be considered include: geologic hazards such as floods, landslides, earthquakes, and volcanism; the availability of water, mineral, and energy resources; and the environmental impact of resource utilization. The importance of recognizing geologic constraints in land use planning and engineering projects is emphasized and illustrated by examples. LEC

GEOL 360 Field Investigation (2). N Summer session. A field-geology course that provides beginning geology students with an initial understanding of the nature of geological evidence in the field, the breadth of geological phenomena, and the importance of the interplay of information from many geological disciplines in solving problems. Given at various geologically diverse locations. Fee. Prerequisite: GEOL 101. LEC

GEOL 391 Special Studies in Geology (1-6). N Special reports upon subjects in which students have a particular interest. Prerequisite: Fifteen hours of geology. IND

GEOL 399 Senior Honors Research (2-5). N Normally two to five hours in any one semester with a maximum of eight hours. An undergraduate research course, in any of the fields of geology, open by permission of the department to seniors in the College who have an average grade of B or higher in geology courses. Prerequisite: Thirty hours of geology, five of which may be taken concurrently with this course. IND

GEOL 512 Igneous and Metamorphic Petrology (3). N The study of minerals, rocks and fluids within the earth's crust and mantle to elucidate their mechanisms of formation and the pressure-temperature-composition conditions within the earth. The course emphasizes equilibrium thermodynamics, phase equilibria, fractionation mechanisms, tectonic control of petrogenesis, and quantitative analysis of mineral parageneses. Prerequisite: GEOL 311 and first semester calculus, or permission of instructor. LEC

GEOL 513 Petrology Laboratory (1). U A laboratory course to accompany GEOL 512. Material covered will include the use of the polarizing microscope in study of rocks in thin sections; identification of rock-forming minerals in thin section; study of textures as guides to the crystallization process; calculations of chemical changes during fractional crystallization and partial melting. Students will also make extensive study of igneous and metamorphic rocks in hand specimens,

KU's Isotope Geochemistry Laboratory is a leading center for studies of the history and evolution of the earth's crust.

The Kansas Geological Survey and the Kansas Department of Agriculture monitor levels at 1,400 water wells in 47 western and central Kansas counties, helping farmers and local officials manage important water resources such as the Ogallala Aquifer.

accompanied by thin section study, with emphasis on composition, texture, and structure. Students must co-enroll in GEOL 512. Prerequisite: GEOL 312. Concurrent enrollment in GEOL 512 required. LAB

GEOL 521 Paleontology (3). N A study of the structure and evolution of ancient life; the nature and diversity of life through time; the interactions of ancient organisms with their environments and the information that the study of fossils provides about ancient environments; the use of fossils to determine the ages of rocks and the timing of past events in earth history; and the patterns of extinction through time. (Same as BIOL 622.) Prerequisite: BIOL 100 or BIOL 152 or GEOL 105 or GEOL 304. LEC

GEOL 523 Paleontology Laboratory (1). U Laboratory course in the study of fossils with emphasis on the practice of paleontology and the morphology of ancient organisms. (Same as BIOL 623.) LEC

GEOL 528 The Biology and Evolution of Fossil Plants (3). N A lecture course in which fossil plants, protists and fungi are examined throughout geologic time. Emphasis will be directed at paleoecology, biogeography and the stratigraphic distribution and composition of ancient floras. (Same as BIOL 640.) Prerequisite: BIOL 413, or permission of instructor. LEC

GEOL 529 Laboratory in Paleobotany (1). U An examination of selected fossil plants throughout geological time and the techniques used to study them; laboratory will include identification and the use of plant fossils in biostratigraphy. (Same as BIOL 641.) Prerequisite: BIOL 413 or permission of instructor. Must be taken concurrently with GEOL 528. LAB

GEOL 532 Stratigraphy (4). N A study of the principles of lithostratigraphy, biostratigraphy, and sequence stratigraphy. Methods of analysis of stratigraphic data focus on the interpretation of earth history. The stratigraphic record of North America is presented for evaluation of its geologic history. Three lectures and one laboratory per week. Required field trip. Prerequisite: GEOL 101, GEOL 521, and GEOL 331. LEC

GEOL 535 Petroleum and Subsurface Geology (4). N A general study of the occurrence, properties, origin, and migration of petroleum. Examples are studied of typical oil fields. Well logs, cuttings, subsurface maps and cross-sections are studied in the laboratory. Prerequisite: GEOL 331 or C&PE 527. LEC

GEOL 536 Subsurface Methods in Petroleum Exploration (1). U Application of well logging and seismic methods to exploration and development of petroleum reservoirs. LEC

GEOL 541 Geomorphology (4). N A critical study of landforms in relation to tectonics, climatic environment, and geologic processes.

The use of geomorphic methods in the interpretation of Cenozoic history is emphasized. Laboratory exercises in analysis of field observations, maps, and photographs. Required field trip and fee. (Same as GEOG 541.) Prerequisite: GEOL 101 and GEOL 103, GEOG 104 and GEOG 105, or GEOL 304 and GEOL 103. LEC

GEOL 551 Engineering Geology (3). N Consideration of geologic factors affecting engineering projects. Topics include: techniques of site exploration, engineering properties of soil and rock, geologic conditions important in the design of major structures, and geologic information useful in land-use planning. Prerequisite: An introductory course in geology or consent of instructor. LEC

GEOL 552 Introduction to Hydrogeology (3). N Physical description of hydrogeologic media. Elementary groundwater hydraulics: analytical and graphical solutions for steady-state application. Well hydraulics and pumping tests. Basic groundwater geology. Effects of topography and geology on regional flow systems. Field and numerical delineation and analysis of groundwater flow systems and applications. Chemical characteristics of groundwaters and their relationship to aquifer geology and hydrology. Investigations of groundwater quality and contamination. Prerequisite: Two semesters each of calculus, physics, and chemistry. LEC

GEOL 560 Introductory Field Geology (3). N Summer session. The study of the principles of field geology and the application of field methods to solve geological problems. Includes use of topographic maps and aerial photographs for geological mapping, the study of stratigraphic methods by measuring sections, and working field trips to areas of regional geological interest. Given at the University of Kansas Geology Field Camp near Canon City, Colorado. Fee. Prerequisite: GEOL 360 and GEOL 562, or consent of instructor. FLD

GEOL 561 Field Geology (3). N Summer session. The application of the principles of field geology to solve complex geological problems in the field. Given at the University of Kansas Geology Field Camp near Cañon City, Colorado, or at other sites as appropriate. Fee. Prerequisite: GEOL 560. FLD

GEOL 562 Structural Geology (4). N A study of primary and secondary rock-structures and their genesis. Includes techniques of structural analysis and introduces mechanics of rock deformations. Lectures, laboratory, and required field trip. Prerequisite: GEOL 311 and PHSX 111 or PHSX 114 or PHSX 211, and MATH 115 or MATH 121. LEC

GEOL 571 Natural Disasters (2-3). N Scientific assessment of natural disasters with concentration on earthquake effects and their mitigation. Briefly treats volcanic eruptions, tidal waves, floods, global warming, severe weather, and catastrophic meteorite impacts in a geological and human framework. A research paper or project is required. Prerequisite: An introductory course in a physical science. LEC

GEOL 572 Geophysics (3). N Introductory study of gravitational, magnetic, seismic, electrical, and thermal properties of the earth. Measurements, interpretation, and applications to exploration, earth structure, and global tectonics. Prerequisite: an introductory course in geology, MATH 116 or MATH 122, and PHSX 115 or PHSX 212. PHSX 115 or PHSX 212 may be taken concurrently. LEC

GEOL 573 Geodynamics and Plate Tectonics (3). N Study of physical processes in the solid Earth and of geophysical approaches to studying Earth systems at regional and global scales. Topics include global potential fields, thermal regime, rheology and Earth deformation, earthquakes and seismic structure, plate motions and global tectonics. (Same as PHSX 528.) Prerequisite: An introductory course in geology, MATH 116 or MATH 122, and PHSX 115 or PHSX 212 or PHSX 214. LEC

GEOL 575 Seismic Exploration (3). N Application of seismic reflection and refraction techniques to the description of near-surface geology and the exploration for energy and mineral resources. Theory of seismic information, data collection, data processing using computers, and geologic interpretation. Prerequisite: A course in computer programming, either FORTRAN or C, which may be taken concurrently. An introductory geophysics course, such as GEOL 572. LEC

GEOL 576 Potential Fields Exploration (3). N Use of gravity, magnetic, and electrical signals in the exploration for energy and mineral resources. Elementary potential field theory, data collection methods, data analysis, and interpretation using computers. Prerequisite: A course in computer programming, either FORTRAN or C, which may be taken concurrently. An introductory geophysics course, such as GEOL 572. LEC

GEOL 577 Environmental Geophysics (3). Application of the methods of geophysical exploration to evaluate, mitigate, and prevent environmental problems below the surface of the earth. Development of fundamental principles and discussion of environmental case histories using seismic, gravity, magnetic, electromagnetic, electrical, and radar methods. Prerequisite: An introductory course in geology, MATH 116 or MATH 122, and PHSX 115 or PHSX 212. LEC

GEOL 591 Topics in Geology: _____ (1-5). N May include lectures, discussions, readings, laboratory, and field work in geology. Will be given as needed. May be taken more than once. LEC

GEOL 711 X-ray Analysis (1-2).

GEOL 712 Microstructures and Petrofabrics (3).

GEOL 713 Advanced Petrology (1).

GEOL 714 Thermochronology (3).

GEOL 715 Geochemistry (3).

GEOL 716 Geologic Thermodynamics (2).

GEOL 717 Geochronology (2-4).

GEOL 718 Stable Isotope Geochemistry (1-3).

GEOL 721 Micropaleontology (3).

GEOL 722 Paleocology (3).

GEOL 723 Paleontology Museum Apprenticeship (1-6).

GEOL 724 Paleobiogeography (3).

GEOL 725 Paleontology of Lower Vertebrates (3).

GEOL 726 Paleontology of Higher Vertebrates (3).

GEOL 727 Macroevolution (3).

GEOL 728 Paleopedology (3).

GEOL 729 Ichnology (3).

GEOL 731 Terrigenous Depositional Systems (4).

GEOL 732 Carbonate Depositional Systems (3).

GEOL 741 Advanced Geomorphology (1-3).

GEOL 751 Physical Hydrogeology (3).

GEOL 752 Field and Laboratory Hydrogeology (3).

GEOL 753 Chemical Hydrogeology (3).

GEOL 754 Contaminant Transport (3).

GEOL 761 Regional Field Geology (1-5).

GEOL 763 Tectonics and Regional Geology (3).

GEOL 771 Advanced Geophysics: _____ (1-3).

GEOL 772 Geophysical Data Analysis (3).

GEOL 773 Seismology (3).

GEOL 774 Finite Difference Methods for Geophysics (2-3).

GEOL 775 Near-surface Seismology (3).

GEOL 780 Conservation Principles and Practices (3).

GEOL 781 Introduction to Museum Exhibits (3).

GEOL 782 The Nature of Museums (3).

GEOL 783 Museum Management (3).

GEOL 784 Introduction to Museum Public Education (3).

GEOL 785 Principles and Practices of Museum Collection Management (3).

GEOL 791 Advanced Topics in Geology: _____ (1-5).

Germanic Languages and Literatures

Chair: William Keel, german@ku.edu
 Wescoe Hall, 1445 Jayhawk Blvd., Room 2080
 Lawrence, KS 66045-7590
 (785) 864-4803, www.ku.edu/~germanic

Degrees offered: B.A., M.A., Ph.D.

The study of German language, literature, and culture enables students to develop skills in reading, writing, speaking, and understanding German as well as the structure of language in general and introduces students to one of the world's great literatures. A knowledge of German is useful for careers in business, journalism, and education or graduate work in the arts and sciences. Students interested in the future of Central and Eastern Europe find a knowledge of German essential. The department also offers the four-semester proficiency sequence in a Scandinavian language (Swedish, Danish, or Norwegian), in Dutch, in Hungarian, and in Yiddish.

Courses in German, Dutch, Hungarian, Yiddish, and Scandinavian languages and literatures are offered through the Department of Germanic Languages and Literatures.

KU Continuing Education administers more than 150 Independent Study courses. See Other Programs for a listing of courses.

Courses for Future Teachers

Candidates for the B.S. in education majoring or minoring in German should see the School of Education chapter of this catalog.

Placement

Students beginning the study of German at KU should take GERM 104. Students with high school German who attend orientation may take a placement test and see a placement adviser. Upon request, the department can give a placement test to other students who seek advice about initial enrollment in German.

Retroactive Credit. Students with no prior college or university German course credit are eligible for retroactive credit according to the following formula:

Three hours of retroactive credit are awarded to a student with two or three years of high school German who enrolls initially at KU in a third-level German course (GERM 212) and receives a grade of C or higher.

Six hours of retroactive credit are awarded to a student with three or four years of high school German who enrolls initially at KU in a fourth-level German course (GERM 216) and receives a grade of C or higher.

Nine hours of retroactive credit are awarded to a student with four years of high school German who enrolls initially at KU in a German course with a fourth-level course as a prerequisite and receives a grade of C or higher.

Advanced Placement. See Advanced Placement under Undergraduate Admission and Scholarships in the General Information chapter.

Credit by Examination. See Credit by Examination in the General Regulations chapter.

Native Speakers. Students who have completed secondary education in a German-speaking country are not eligible to enroll in German courses below the 500 level. The department disenrolls such students.

Honors Courses

Special honors sections such as GERM 105, GERM 109, GERM 213, and GERM 217 are offered in the basic language program.

Majors

First- and Second-year Preparation. GERM 104, GERM 108, GERM 212, and GERM 216 should be completed as early as possible.

Requirements for the B.A. Major. In addition to the College language requirement, the German major requires 30 hours in courses numbered 300 and above. After completion of the basic language requirement

(GERM 216 or equivalent), prospective majors must complete four required intermediate core courses: two intermediate composition courses selected from GERM 340, GERM 344, and GERM 348; and two introductory literature courses selected from GERM 400, GERM 408, and GERM 416. In addition to the intermediate core courses (12 hours), 15 hours of course work at the 500 level and above are required. Included among these 15 hours must be 6 hours of literature. Students complete the required 30 hours with one additional elective from any course numbered 300 or above.

The following chart offers guidance in completing the major requirements within four years.

First-Fourth Semester:	Completion of proficiency requirements (GERM 216 or equivalent)	
Fifth Semester:	2 courses at 300/400 level	6
Sixth Semester:	2 courses at 300/400 level	6
Seventh Semester:	3 courses at 500 level or above	9
Eighth Semester:	2 courses at 500 level or above and one elective	9
Total:		30

To avoid scheduling difficulties, particularly for double majors, early completion of the proficiency requirements (GERM 216 or equivalent) is highly advisable.

Residence Requirement. Twelve hours beyond the basic language requirement must be taken in residence at KU, with a minimum of 6 hours in courses numbered 500 or above.

Requirements for the German Minor. The minor requires 18 hours in courses numbered 300 and above. The prerequisite is completion of the proficiency sequence in German (GERM 216 or equivalent).

Two composition courses selected from GERM 340, GERM 344, and GERM 348

Two introductory literature courses selected from GERM 400, GERM 408, and GERM 416

Two electives numbered 300 or above. Students may choose electives from business German (GERM 352), conversation (GERM 444), advanced literature (e.g., GERM 572, GERM 576, GERM 616), advanced language (e.g., GERM 618, GERM 626, GERM 630), and cultural studies (e.g., GERM 588, GERM 590, GERM 620).

Honors. To graduate with honors in German, a student must demonstrate an ability to work independently and critically in language and literature. To begin the program, students must consult with the departmental honors adviser before the senior year and submit a departmental honors intent form. Candidates must be eligible to take courses numbered 500 and above. To qualify for the B.A. in German with honors, the student must have a minimum grade-point average of 3.25 overall and 3.5 in German at graduation and complete the following requirements:

1. The requirements for the major (see above) must include among the required 30 hours one enrollment (3 hours) in German courses at the 700 level or above with a grade of B or higher. This requirement may not be met by enrollment in GERM 753 Investigation and Conference.

2. In addition to the requirements for the major, the student must enroll in 3 hours of GERM 753 Investigation and Conference with a faculty member of the student's choice, working in an area of mutual interest. The student prepares a research project upon which the course grade largely rests. The research project may not be used to satisfy other course requirements. A grade of B or higher in GERM 753 is required for completion of the honors program.

3. Honors candidates also participate in an honors examination with three members of the faculty, held before the end of the student's last semester of academic work. In addition to the research project, other topics in German studies may be discussed.

Study Abroad

The department conducts two eight-week Summer Language Institutes in Germany for students in second-, third-, and fourth-year German. Students nor-

mally enroll for 9 credit hours and live with German families. Juniors and seniors may spend a semester or a full academic year at a university in Germany. Graduating seniors may apply for direct exchange fellowships at universities in Germany. For information, consult the department or the Office of Study Abroad.

Library Collections in German

Specialized German libraries at KU include the Rainer Maria Rilke Collection (1,200 volumes including all first editions); the Max Kade Center for German-American Studies (10,000 volumes of special interest to students of German-American writers); and the Engel German Library, an endowed collection of books, periodicals, magazines, newspapers, CDs, and audio-visual and computer materials.

● Danish Courses

DANE 100 Danish Reading Course (3). U Special course designed to enable graduate students to develop a reading knowledge of Danish as a research skill. Enrollment for undergraduate credit is required. Does not satisfy any part of the undergraduate language requirement. Not open to native speakers of Danish. LEC

DANE 101 Danish Reading Course II (3). U Continuation of DANE 100 and introduction to reading Norwegian and Swedish. Not open to native speakers of Danish. Prerequisite: DANE 100 or equivalent. LEC

DANE 104 Elementary Danish I (5). U Essentials of grammar, practice in speaking, reading, and writing Danish. Five hours of recitation per week. Not open to native speakers of Danish. LEC

DANE 105 Elementary Danish I, Honors (5). H Course content similar to DANE 104, with additional work to expand the student's cultural context and understanding. Not open to native speakers of Danish or students who have completed DANE 104. Prerequisite: Open only to students admitted to the University Honors Program or by permission of instructor. LEC

DANE 108 Elementary Danish II (5). U Continuation of grammar; practice in conversation, composition, and reading. Five hours of recitation per week. Not open to native speakers of Danish. Prerequisite: DANE 104 or permission of instructor. LEC

DANE 109 Elementary Danish II, Honors (5). H Course content similar to DANE 108, with additional cultural study. Not open to native speakers of Danish or students who have completed DANE 108. Prerequisite: Open to students who received a grade of A in DANE 104 or an A or B in DANE 105. LEC

DANE 212 Intermediate Danish I (3). U A continuation of DANE 108. Structured grammar review, composition, conversation with readings of literary and cultural texts. Not open to native speakers of Danish. Prerequisite: DANE 108 or permission of instructor. LEC

DANE 213 Intermediate Danish I, Honors (3). H Course content similar to DANE 212, with additional cultural study. Not open to native speakers of Danish or students who have completed DANE 212. Prerequisite: Completion of DANE 108 with a grade of A, or DANE 109 with a grade of A or B. LEC

DANE 216 Intermediate Danish II (3). U A continuation of DANE 212. Structured grammar review, composition, conversation with readings of literary and cultural texts. Not open to native speakers of Danish. Prerequisite: DANE 212 or permission of instructor. LEC

DANE 217 Intermediate Danish II, Honors (3). H Course content similar to DANE 216, with additional cultural study. Not open to native speakers of Danish or students who have completed DANE 216. Prerequisite: Completion of DANE 212 with a grade of A, or DANE 213 with a grade of A or B. LEC

DANE 220 Intensive Danish (16). U This course is designed to teach speaking, reading, writing, and comprehension skills of first and second year Danish in one semester. Classes are held for four hours a day Monday through Friday (8:30 a.m. - 12:20 p.m.). There are intensive drills in grammar, integrated language lab work, and homework assignments. Not open to native speakers of Danish. Prerequisite: Admission to Danish Institute at the University of Kansas. LEC

● Dutch Courses

DTCH 100 Dutch Reading Course (3). U Special course designed to enable graduate students to develop a reading knowledge of Dutch as a research skill. Enrollment for undergraduate credit is required. Does not satisfy any part of the undergraduate language requirement. Not open to native speakers of Dutch. LEC

DTCH 101 Dutch Reading Course II (3). Continuation of DTCH 100. Not open to native speakers of Dutch. Prerequisite: DTCH 100 or equivalent. LEC

DTCH 104 Elementary Dutch I (5). U Essentials of grammar; practice in speaking, reading, and writing Dutch. Five hours of recitation per week. Not open to native speakers of Dutch. LEC

DTCH 105 Elementary Dutch I, Honors (5). U Similar to DTCH 104 with additional work to expand the student's cultural context and understanding. Not open to native speakers of Dutch or students who have completed DTCH 104. Prerequisite: Open only to students admitted to the University Honors Program, or by permission of instructor. LEC

DTCH 108 Elementary Dutch II (5). U Continuation of grammar, practice in conversation, composition, and reading. Five hours of recitation per week. Not open to native speakers of Dutch. Prerequisite: DTCH 104 or equivalent. LEC

DTCH 109 Elementary Dutch II, Honors (5). U Course content similar to DTCH 108, with additional cultural study. Meets 5 days a week. Not open to native speakers of Dutch. Prerequisite: Open only to students admitted to the University Honors Program or by permission of instructor. LEC

DTCH 212 Intermediate Dutch I (3). U A continuation of DTCH 108. Structured grammar review, composition, conversation, with readings of literary and cultural texts. Three class meetings per week. Not open to native speakers of Dutch. Prerequisite: DTCH 108 or equivalent. LEC

DTCH 213 Intermediate Dutch I, Honors (3). U Course content similar to DTCH 212, with additional cultural study. Three class meetings per week. Not open to native speakers of Dutch. Prerequisite: Open only to students admitted to the University Honors Program, or by permission of instructor. LEC

DTCH 216 Intermediate Dutch II (3). U A continuation of DTCH 212. Structured grammar review, composition, conversation, with readings of literary and cultural texts. Three class meetings per week. Not open to native speakers of Dutch. Prerequisite: DTCH 212 or equivalent. LEC

DTCH 217 Intermediate Dutch II, Honors (3). U Course content similar to DTCH 216, with additional cultural study. Three class meetings per week. Not open to native speakers of Dutch. Prerequisite: Open only to students admitted to the University Honors Program, or by permission of instructor. LEC

DTCH 453 Investigation and Conference: ____ (1-3). H/W Independent study and directed reading on special topics. Permission of the instructor who will supervise the student's work is required. Not open to native speakers of Dutch. IND

● German Courses

GERM 100 German Reading Course I (3). U A special reading course for candidates for advanced degrees in other departments, designed to aid them in obtaining a reading knowledge of German, for purposes of research. Enrollment for undergraduate credit is required. An intensive study of the fundamentals of grammar, proceeding to the reading of material of medium difficulty. Three recitations weekly. Intended primarily for graduate students, but open also to seniors planning graduate study. The course does not satisfy any part of the undergraduate language requirement. Presupposes no previous study in German. Not open to native speakers of German. LEC

GERM 101 German Reading Course II (3). U A continuation of GERM 100. Review of grammar, with emphasis on reading and translation of material of an advanced nature in the candidate's general field. Three recitations weekly. Not open to native speakers of German. LEC

GERM 102 Elementary German BI (3). U Essentials of German grammar and practice in speaking, reading, and writing. Three hours of class per week. Intended as the first course in the sequence GERM 102, GERM 106, GERM 110, GERM 212, and GERM 216. Not open to native speakers of German. Not open to students who have completed GERM 104. LEC

GERM 104 Elementary German AI (5). U Essentials of grammar, practice in speaking, reading, and writing German. Five hours of recitation per week. Intended as the first course in the sequence GERM 104, GERM 108, GERM 212, and GERM 216. Not open to native speakers of German. Open for only 2 hours credit to students who have completed GERM 102. LEC

GERM 105 Elementary German AI, Honors (5). U Course content similar to GERM 104, with additional cultural study. Five hours of recitation per week. Not open to native speakers of German. Open for only 2 hours credit for students who have completed GERM 102. Prerequisite: Eligibility for or admission to University Honors Program. LEC

GERM 106 Elementary German BII (3). U Essentials of German grammar and practice in speaking, reading, and writing. Three hours of class per week. Intended as the second course in sequence GERM 102, GERM 106, GERM 110, GERM 212, and GERM 216. Not open to native speakers of German. Not open to students who have completed GERM 104. Prerequisite: GERM 102 or equivalent. LEC

GERM 107 Elementary German II with Review of German I (5). U Continuation of grammar with review of material covered in Elementary German I; practice in conversation, composition, and reading. Five hours of recitation per week. Not open to native speakers of German. Prerequisite: One semester of college German or the equivalent prior to entering K.U. LEC

GERM 108 Elementary German AII (5). U Continuation of grammar; practice in conversation, composition, and reading. Five hours

of recitation per week. Intended as the second course in the sequence GERM 104, GERM 108, GERM 212, and GERM 216. Not open to native speakers of German. Not open to students who have completed GERM 110. Prerequisite: GERM 104 or GERM 106. LEC

GERM 109 Elementary German All, Honors (5). U Course content similar to GERM 108, with additional cultural study. Five hours of recitation per week. Prerequisite: Open to students who received the grade of A in GERM 104 or GERM 106, or an A or B in GERM 105. Not open to native speakers of German. Not open to students who have completed GERM 110. LEC

GERM 110 Elementary German BIII (3). U Essentials of German grammar and practice in speaking, reading, and writing. Three hours of class per week. Intended as the third course in the sequence GERM 102, GERM 106, GERM 110, GERM 212, and GERM 216. Not open to native speakers of German. Not open to students who have completed GERM 108. Prerequisite: GERM 106. LEC

GERM 118 Intensive German (11). U Same content as GERM 108, GERM 212, and GERM 216 but accomplished in one semester of intensive study. This course also includes readings, lectures, and discussions on topics in art, history, and politics. Not open to native speakers of German. Prerequisite: Eligibility for GERM 108 and consultation with the department. LEC

GERM 120 German Classics in English Translation: _____ (3). HL H Discussion of landmark works in German drama, poetry, and prose. Not open to native speakers of German. LEC

GERM 124 German Cinema in Context (3). HL Background readings, lectures, and discussions in English about major German films in their historical and cultural contexts. About fifteen full-length films from the period 1913 to the present will be viewed and analyzed. The course will raise questions about the film's sources, ideology, techniques, and artistic achievements. Does not fulfill any requirement in the German major or minor. LEC

GERM 125 German Cinema in Context, Honors (3). HL Course content similar to GERM 124. Background readings, lectures, and discussions in English about major German films and their historical and cultural contexts. About 15 full-length films from the period 1913 to the present will be viewed and analyzed. The course will raise questions about the films' sources, ideology, techniques, and artistic achievements. Does not fulfill any requirement in the German major or minor. LEC

GERM 132 The German Cultural Heritage (3). HL H Readings, lectures, and discussions in English on German intellectual thought, the fine arts, mythology, and folklore in historical and literary context. Not open to native speakers of German. LEC

GERM 136 The German-American Experience (3). HT U Readings, lectures, and discussion in English on the immigration and acculturation of German-speaking ethnic groups in Colonial America and the United States. Emphasis on Americanization during the Colonial period, discrimination in the pre-Civil War era, integration in the post-Civil War era, anti-German hysteria during the World War I era, exiles during the Nazi period, and the near total assimilation of this ethnic group in the United States during the 20th century. LEC

GERM 148 Germanic Mythology, Religion, and Folklore (3). H/W An introduction to the pagan myths and beliefs of Teutonic antiquity and their survival in the popular traditions of Germanic countries. Selected readings in the Eddas and other sources (in translation). General orientation toward aspects of comparative mythology, archaeology, and anthropology. No knowledge of German or Scandinavian languages is required. Not open to native speakers of German. LEC

GERM 212 Intermediate German I (3). U A continuation of GERM 108 or GERM 110. Structured grammar review, composition, conversation, with readings of literary and cultural texts. Three class meetings per week. Intended as the third course in the sequence GERM 104, GERM 108, GERM 212, and GERM 216, or as the fourth course in the sequence GERM 102, GERM 106, GERM 110, GERM 212, and GERM 216. Not open to native speakers of German. Prerequisite: GERM 108, GERM 110, or equivalent. LEC

GERM 213 Intermediate German I, Honors (3). U Course content similar to GERM 212, with additional cultural study. Three class meetings per week. Not open to native speakers of German. Prerequisite: Completion of GERM 108 and GERM 110 with a grade of A or GERM 109 with a grade of A or B. LEC

GERM 216 Intermediate German II (3). U A continuation of GERM 212. Structured grammar review, composition, conversation with readings of literary and cultural texts. Three class meetings per week. Intended as the fourth course in the sequence GERM 104, GERM 108, GERM 212, and GERM 216, or as the fifth course in the sequence GERM 102, GERM 106, GERM 110, GERM 212, and GERM 216. Not open to native speakers of German. Prerequisite: GERM 212 or equivalent. LEC

GERM 217 Intermediate German II, Honors (3). U Course content similar to GERM 216, with additional cultural study. Three class meetings per week. Not open to native speakers of German. Prerequisite: Completion of GERM 212 with a grade of A or GERM 213 with a grade of A or B. LEC

GERM 219 Intensive Intermediate German (6). U One-semester course meeting seven times a week. The material covered is the

same as in GERM 212 and contains selections from GERM 216. This course includes written and oral composition, conversation, and grammar review; readings and discussions in the areas of German literature and culture (e.g. art, history, and politics). Not open to native speakers of German. Prerequisite: GERM 108 or equivalent and consent of instructor. LEC

GERM 222 Special Studies in German: _____ (1-3). H/W This course is designed for the study of special topics in German. Course-work must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

GERM 240 Major German Intellectual Texts (3). U Analysis of excerpts (read in the original German) from the works of such writers as Marx, Nietzsche, Freud, and Einstein. Prerequisite: GERM 212. LEC

GERM 244 Scientific German (3). U Intended primarily for premedical students and for students majoring in the natural and social sciences. In addition to the class text there are appropriate outside readings. Prerequisite: GERM 212. LEC

GERM 256 Introduction to German Folklore (3). H/W History, theory, and practice of German folklore with selected readings in German and discussions in English. Special emphasis on the contributions of the Grimm brothers. Not open to native speakers of German. Prerequisite: GERM 212 or equivalent. LEC

GERM 320 Border Crossings in German Culture (3). HT/H Taught in English. Provides a general introduction to German culture and its transformations in international contexts through an examination of the historical, cultural, and literary impact of German emigration and immigration. Historical periods covered include the emigration wave to America after the failed 1848 revolution, the exile communities during the Nazi era, and the multinational migrations in contemporary Germany. Does not fulfill any requirement in the German major or minor. LEC

GERM 324 Magic, Monsters, and the Occult in German Literature (3). HL Taught in English. For centuries German scientists, philosophers and poets have produced groundbreaking literature that has featured magic, monsters and the occult sciences. German poets introduced popular themes, such as the Faust legend and the pact with the devil, and they introduced one of the most popular monsters into literature - the vampire. In this course we will read and discuss fictional and nonfictional works by German authors that address these themes, and we will discuss the influence that these works have had on other nations' literatures. Does not fulfill any requirement in the German major or minor. LEC

GERM 328 Germany and the Arts (3). HL, H Taught in English. This course offers an introduction to art and culture in Germany. This is achieved by exploring a variety of themes, such as music, the arts, pop culture, theater and film. The course places special attention on the historical and cultural context from which these art forms were created. Does not fulfill any requirement in the German major or minor. LEC

GERM 332 Berlin in German Culture (3). HL Taught in English. An introduction to Berlin as a microcosm of major historical, social, intellectual, and artistic developments in German culture since 1800. Complex epochs such as Bismarckian Prussia, Nazi Germany, the Cold War and Unification are illustrated through diverse materials including news reports, poetry, sociological accounts as well as film and other media. Does not fulfill any requirement in the German major or minor. LEC

GERM 340 Deutsche Grammatik (3). H/W For students enrolled in the KU Summer Language Institute in Germany. Exercises in selected topics of German grammar. Prerequisite: GERM 216 or equivalent. LEC

GERM 344 Intermediate Composition I (3). H/W Extensive practice in writing and speaking German with review of selected grammar topics. Not open to native speakers of German. Prerequisite: GERM 216 or equivalent. LEC

GERM 348 Intermediate Composition II (3). H/W Continuation of GERM 344. Not open to native speakers of German. Prerequisite: GERM 216 or equivalent. LEC

GERM 350 Early Medieval Literature (3). H/W Literary masterpieces of the early European Middle Ages will be studied in English translation, especially legendary, heroic, and epic works written in Celtic and Anglo-Saxon, Norse and German, French and Spanish. Topics in Latin culture will include poetry and liturgy, Augustine and Boethius, the Dark Ages and the Carolingian Renaissance. Not open to native speakers of German. LEC

GERM 351 Later Medieval Literature (3). H/W Literary masterpieces of the later European Middle Ages will be studied in English translation, especially the poetry of courtly love and the Arthurian romances written in French, German, and English. Dante, Boccaccio, and Chaucer will also be included, as will examples typical of Latin religious and secular literature and of vernacular prose genres, e.g. chronicles, travel accounts, and biographies. Not open to native speakers of German. LEC

GERM 352 Business German: Deutsch Fur Den Beruf (3). H/W Extensive practice in business communication: terminology, texts and correspondence, oral practice in business situations. Not open to native speakers of German. Prerequisite: GERM 216 or equivalent. LEC

GERM 356 Translation into German—Intermediate Level (3). H/W Exercises in the translation of a variety of texts from contemporary journalism, cultural affairs, and the social sciences. Translation of ex-

Summer and academic year programs in Germany are offered. See KU Study Abroad Programs in the Other Programs chapter of this catalog.

KU has specialized German collections in Watson Library, Spencer Library, and Wescoe Hall.

The Max Kade Center for German-American Studies collects materials on German culture in the United States and fosters scholarship in German-Americana.

pository writing introduces the student to special semantics and syntactic contrast between English and German. Not open to native speakers of German. Prerequisite: GERM 216 or equivalent. LEC

GERM 372 Readings and Exercises in the German of the Professions and Social Sciences (3). H/W Readings from current German newspapers and periodicals introduce the student to journalistic style and special terminology in such fields as cultural affairs, business, and politics. Exercises in written German pertaining to these and other fields will be assigned. Not open to native speakers of German. Prerequisite: GERM 216 or equivalent. LEC

GERM 400 Introduction to German Literary Masterpieces (3). H/W For students enrolled in the KU Summer Language Institute in Germany. Selected works of major German Language writers of the 19th and 20th centuries. Not open to native speakers of German. Prerequisite: One course from GERM 340, GERM 344, GERM 348, or GERM 444. LEC

GERM 408 Introduction to German Literature I (3). H/W An introduction to German literature from 1890 to the present. Emphasis on development of interpretive skills, as well as an understanding of literary movements, genres, and concepts of this period. Not open to native speakers of German. Prerequisite: One course from GERM 340, GERM 344, GERM 348, or GERM 444. LEC

GERM 416 Introduction to German Literature II (3). H/W An introduction to German literature from 1750-1890. Emphasis on development of interpretive skills, as well as an understanding of literary movements, genres, and concepts of this period. Not open to native speakers of German. Prerequisite: One course from GERM 340, GERM 344, GERM 348, or GERM 444. LEC

GERM 420 German Literature in English Translation: _____ (3). H/W Lectures, assigned readings, and discussions in English. Emphasis on the nineteenth and twentieth centuries, with some consideration of parallel literary phenomena in France, England, and the United States. Not open to native speakers of German. LEC

GERM 424 German Cinema in Context (3). U Background readings, lectures, and discussions in English about major German films in their historical and cultural contexts. About fifteen full-length films from the period 1913 to the present will be viewed and analyzed. The course will raise questions about the film's sources, ideology, techniques, and artistic achievements. Does not fulfill any requirement in the German major or minor. Students taking GERM 424 will be expected to work at a higher level. LEC

GERM 425 German Cinema in Context for German Majors and Minors (3). H/W Background readings, lectures, and discussions in English about major German films in their historical and cultural contexts. About 15 full-length films from 1913 to the present will be viewed and analyzed. The course will raise questions about the film's sources, ideology, techniques, and artistic achievements. Fulfills elective requirements in the German major or minor. Portions of the assignments will be in German. Not open to native speakers of German. Prerequisite: One 300-level German course or permission of instructor. LEC

GERM 444 German Conversation for Everyday Use (3). H/W The goal of this course is to maintain and further develop practical conversational skills of students who already have a basic knowledge of German. Discussion will range among topics from everyday German life and current affairs, with German newspapers and magazines providing the orientation. May be repeated. May only be counted once toward the minimum 30 hours in the major. Not open to native speakers of German. Prerequisite: GERM 216 or equivalent. LEC

GERM 453 Investigation and Conference: _____ (1-3). H/W Independent study and directed reading on special topics. Permission of the instructor who will supervise the student's work is required. Not open to native speakers of German. IND

GERM 462 The German Business Environment (3). H/W Introduction to German business practices, including basic information about German economic and corporate life. Especially designed for students intending to participate in an internship with a German company and those who wish to enhance their knowledge of basic business German. Taught in German. Not open to native speakers of German. Prerequisite: One 300-level German course. LEC

GERM 504 German Poetry (3). H/W The appreciation and understanding of selected masterpieces of German poetry, with attention to the basic poetic forms, techniques, and phonological features. Not open to native speakers of German. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 560 Interpretation of Literature (3). H/A study of selected works in literary theory and of selected problems in literary interpretation and comparative literature methodology, designed to examine and apply systematically basic critical principles and approaches. Discussion of these approaches will be related to the previous study of literature and deepened through individual papers written by participants and presented to the group. Students will be required to do extensive work in German. (Same as ENGL 308, HWC 390, SLAV 394, and SPAN 390.) Prerequisite: GERM 308, GERM 316, and GERM 348. LEC

GERM 568 German Literature from 1750-1805 (3). H/W Readings and discussions in German of selected literary works of the classical period. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 572 German Literature from 1805-1890 (3). H/W Readings and discussions in German of selected literary works of the nineteenth century. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 576 German Literature from 1890 to the Present (3). H/W Readings and discussions in German of selected literary works of the twentieth century. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 588 Deutsche Kulturkunde I (3). H/W A study of the development of German culture with emphasis on life, customs, geography, art, music, and literature, from its beginnings to 1810. Readings and discussions in German and English. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 590 Deutsche Kulturkunde II (3). H/W A study of the development of German culture with emphasis on life, customs, geography, art, music, and literature, from 1810 to the present. Readings and discussions in German and English. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 604 Introduction to the Germanic Languages (3). H/W A study of the development and distribution of the Germanic languages, with emphasis on the modern linguistic features of the major members of the language family. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 608 German Literature from the Beginning to 1750 (3). H/W Readings and discussions in German of selected literary works of the medieval and early modern periods. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 614 Course in Representative Authors: _____ (3). H Readings and discussions in German of selected literary works by a major author (e.g., Goethe, Heine, Fontane, Brecht, Kafka, Grass, etc.). May be repeated. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 616 Topics in German Literature: _____ (3). H/W Readings and discussions in German of selected literary works on a particular topic or theme (e.g., nature, women, art and literature, etc.). May be repeated. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416, and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 618 Topics in German Language and Linguistics: _____ (3). H/W Readings and discussions in German in an area of specialized language or linguistic study (e.g., lexical fields, modern German dialects, etc.). May be repeated. Prerequisite: Two literature courses from GERM 300, GERM 308, and GERM 316, and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 620 Topics in German Culture and Folklore: _____ (3). H/W Readings and discussions in German on some aspect of German culture or folklore, including *Landeskunde* (study of contemporary Germany). May be repeated. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416, and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 626 Idiomatic Usage in Modern Colloquial and Literary German (3). H/W Practical exercises in the systematic study of idioms and synonyms, designed to foster a more discriminating and effective usage of German. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 628 Translation into German (Advanced) (3). H/W Exercises in the translation of expository and stylistically sophisticated texts from various fields. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 630 Advanced German Grammar (3). H/W Recommended for students intending to teach German. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 632 Deutscher Stil (Advanced German Composition) (3). H/W Training in writing reports and seminar papers in German. Recommended for students intending to do graduate work in German. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

KU's history faculty is particularly strong in American, modern European, and medieval history and has interests in Latin American, East Asian, and ancient history.

Spencer Research Library houses the world's largest collection of illustrations by John Gould, known as England's Audubon.

GERM 653 Investigation and Conference: ____ (1-3). H/W Independent study and directed reading on special topics. Permission of the instructor who will supervise the student is required. Prerequisite: Two literature courses from GERM 400, GERM 408, and GERM 416 and two composition courses from GERM 340, GERM 344, and GERM 348, or equivalent. LEC

GERM 681 Language Teaching for Oral Proficiency (1). U A summer course designed principally for secondary school language teachers. Provides an orientation to proficiency-based models in foreign language instruction, national standards in the rating of foreign language proficiency, and curriculum development sessions which address issues of articulation in foreign language curricula. (Not applicable toward a major or graduate degree in German.) (Same as FREN 681 and SPAN 681.) LEC

GERM 700 Practicum for Graduate Teaching Assistants (1).

GERM 701 Introduction to the Study of Literature (3).

GERM 703 Methods of Literary Criticism (3).

GERM 704 German Stylistics (3).

GERM 705 German Phonetics (3).

GERM 711 History of the German Language (3).

GERM 712 The Structure of Modern Standard German (3).

GERM 716 Topics in German Literature: ____ (3).

GERM 721 Introduction to Middle High German Literature (3).

GERM 732 Early Modern Period (3).

GERM 734 Age of Goethe (3).

GERM 736 Post-Romantic Nineteenth Century (3).

GERM 738 Twentieth Century (3).

GERM 751 Special Topics in Culture: ____ (3).

GERM 753 Investigation and Conference: ____ (1-3).

GERM 754 Studies in Humanism, Renaissance, and Reformation Literature: ____ (3).

GERM 755 Studies in Baroque Literature: ____ (3).

GERM 756 Studies in Enlightenment Literature: ____ (3).

GERM 760 Studies on Writers of the Age of Goethe: ____ (3).

GERM 762 Studies in Romanticism: ____ (3).

GERM 764 Studies in the Literature of the Nineteenth Century: ____ (3).

GERM 766 Studies in Literature Since 1890: ____ (3).

● Hungarian Courses

HNGR 103 Survival Hungarian (3). U Practical training for people intending to live, study, travel, or work in Hungary. Focus on conversational skills. Intensive practice in speaking and listening, with vocabulary about Hungarian geography, culture, and business. Introduction to basic grammar. Not open to native speakers LEC

HNGR 104 Elementary Hungarian I (5). U Essentials of grammar, practice in speaking, reading, and writing Hungarian. Five class meetings per week. Not open to native speakers of Hungarian. LEC

HNGR 108 Elementary Hungarian II (5). U Continuation of grammar; practice in conversation, composition, and reading. Five class meetings per week. Not open to native speakers of Hungarian. Prerequisite: HNGR 104 or equivalent. LEC

HNGR 212 Intermediate Hungarian I (3). U A continuation of HNGR 108. Structured grammar review, composition, conversation, with readings of literary and cultural texts. Three class meetings per week. Not open to native speakers of Hungarian. Prerequisite: HNGR 108 or equivalent. LEC

HNGR 216 Intermediate Hungarian II (3). U A continuation of HNGR 212. Structured grammar review, composition, conversation, with readings of literary and cultural texts. Three class meetings per week. Not open to native speakers of Hungarian. Prerequisite: HNGR 212 or equivalent. LEC

HNGR 453 Investigation and Conference: ____ (1-3). U Independent study and directed readings on special topics. Permission of the instructor who will supervise the student's work is required. Not open to native speakers of Hungarian. Prerequisite: HNGR 216. IND

● Norwegian Courses

NORW 104 Elementary Norwegian I (5). U Essentials of grammar, practice in speaking, reading, and writing Norwegian. Five hours of recitation per week. Not open to native speakers of Norwegian. LEC

NORW 108 Elementary Norwegian II (5). U Continuation of grammar; practice in conversation, composition, and reading. Five hours of recitation per week. Not open to native speakers of Norwegian. Prerequisite: NORW 104 or permission of instructor. LEC

NORW 212 Intermediate Norwegian I (3). U A continuation of NORW 108. Structured grammar review, composition, conversation with readings of literary and cultural texts. Not open to native speakers of Norwegian. Prerequisite: NORW 108 or permission of instructor. LEC

NORW 216 Intermediate Norwegian II (3). U A continuation of NORW 212. Structured grammar review, composition, conversation with read-

ings of literary and cultural texts. Not open to native speakers of Norwegian. Prerequisite: NORW 212 or permission of instructor. LEC

● Scandinavian Courses

SCAN 453 Investigation and Conference: ____ (1-3). U Independent study and directed reading on special topics. Prerequisite: Permission of instructor. IND

SCAN 570 Scandinavian Life and Civilization (3). H/W This course is designed to impart a general knowledge of life in Denmark, Finland, Iceland, Norway, and Sweden, with emphasis on social and cultural conditions, against a geographical and historical background, from the Viking age to the present. Slides and other illustrated materials. (Same as EURS 510.) LEC

SCAN 660 Representative Authors in English (3). H/W Intensive study of one or more major authors from the literatures of Scandinavia. May be repeated. LEC

SCAN 661 Topics in Scandinavian Languages and Linguistics: ____ (3). Intensive study of a selected topic in Scandinavian languages and linguistics. The course deals with the linguistic analysis of language rather than the acquisition of a particular language. May be repeated. Prerequisite: A course in linguistics. LEC

SCAN 753 Investigation and Conference: ____ (1-3).

● Swedish Courses

SWED 104 Elementary Swedish I (5). U Essentials of grammar, practice in speaking, reading, and writing Swedish. Five hours of recitation per week. Not open to native speakers of Swedish. LEC

SWED 105 Elementary Swedish I, Honors (5). U Similar to SWED 104 with additional work to expand the student's cultural context and understanding. Not open to native speakers of Swedish or students who have completed SWED 104. Prerequisite: Open only to students admitted to the University Honors Program, or by permission of instructor. LEC

SWED 108 Elementary Swedish II (5). U Continuation of grammar; practice in conversation, composition, and reading. Five hours of recitation per week. Not open to native speakers of Swedish. Prerequisite: SWED 104 or permission of instructor. LEC

SWED 109 Elementary Swedish II, Honors (5). U Course content similar to SWED 108, with additional cultural study. Meets 5 days a week. Not open to native speakers of Swedish. Prerequisite: Open only to students admitted to the University Honors Program, or by permission of instructor. LEC

SWED 212 Intermediate Swedish I (3). U A continuation of SWED 108. Structured grammar review, composition, conversation with readings of literary and cultural texts. Not open to native speakers of Swedish. Prerequisite: SWED 108 or permission of instructor. LEC

SWED 213 Intermediate Swedish I, Honors (3). U Course content similar to SWED 212, with additional cultural study. Three class meetings per week. Not open to native speakers of Swedish. Prerequisite: Open only to students admitted to the University Honors Program, or by permission of instructor. LEC

SWED 216 Intermediate Swedish II (3). U A continuation of SWED 212. Structured grammar review, composition, conversation with readings of literary and cultural texts. Not open to native speakers of Swedish. Prerequisite: SWED 212 or permission of instructor. LEC

SWED 217 Intermediate Swedish II, Honors (3). U Course content similar to SWED 216, with additional cultural study. Three class meetings per week. Not open to native speakers of Swedish. Prerequisite: Open only to students admitted to the University Honors Program, or by permission of instructor. LEC

● Yiddish Courses

YDSH 104 Elementary Yiddish I (5). U Essentials of grammar, practice in speaking, reading, and writing Yiddish. Five hours of recitation per week. Not open to native speakers of Yiddish. LEC

YDSH 108 Elementary Yiddish II (5). U Continuation of grammar, practice in conversation, composition, and reading. Five hours of recitation per week. Not open to native speakers of Yiddish. Prerequisite: YDSH 104 or equivalent. LEC

YDSH 212 Intermediate Yiddish I (3). U Structured grammar review, composition, conversation, with readings of literary and cultural texts. Three class meetings per week. Not open to native speakers of Yiddish. Prerequisite: YDSH 108 or equivalent. LEC

YDSH 216 Intermediate Yiddish II (3). U A continuation of YDSH 212. Structured grammar review, composition, conversation, with readings of literary and cultural texts. Three class meetings per week. Not open to native speakers of Yiddish. Prerequisite: YDSH 212 or equivalent. LEC

YDSH 453 Investigation and Conference: ____ (1-3). U Independent study and directed reading on special topics. Permission of the instructor who will supervise the student's work is required. Not open to native speakers of Yiddish. LEC

Greek

See Classics.

Haitian

See African and African-American Studies.

Hausa

See African and African-American Studies.

Health Professions

See Premedical Professions in this chapter of the catalog.

Hebrew

See Religious Studies.

History

Chair: Jeff Moran

Director of Undergraduate Studies: Anton Rosenthal
Wescoe Hall, 1445 Jayhawk Blvd., Room 3001

Lawrence, KS 66045-7590

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Courses for Nonmajors

The department offers courses that span time (from ancient to contemporary history) and space (North and South America, Europe, Asia, and Africa). Topical courses complement studies in the College and professional schools. Study in the history of science is available. Other topical offerings include political, diplomatic, military, cultural, intellectual, environmental, urban, and business/economic history. The department offers courses in social history, including history of women and the family, ethnic, African-American, and Native American history. History courses are cross-listed with African and African-American studies, American studies, East Asian languages and cultures, economics, English, environmental studies, European studies, geography, humanities and Western civilization, Latin American studies, philosophy, political science, religious studies, Russian and East European studies, and women's studies. Advisers help students integrate historical studies with their curricula.

Majors

The history major allows students to explore the richness and diversity of human experience in the past while building skills of analysis, interpretation, research, and communication. All history majors gain knowledge of significant historical transformations that have shaped both Western and non-Western societies. History majors learn to think critically, to conduct historical research, and to present the results of their research in clear and coherent writing.

First- and Second-year Preparation. Prospective majors are encouraged to enroll in one or two introductory courses (usually numbered HIST 100-HIST 299) in their first two years. Many introductory history courses fulfill the College's HT or NW Principal Course requirements, and prospective majors might choose one of them to explore their interests in history. Students who come to KU with AP or transfer credit should be aware that

only 6 hours of history course work numbered 100-299 may be counted toward the major. Students interested in history as a major are encouraged to meet with a department adviser early in their careers at KU to discuss their academic goals and interests. Contact the department to schedule an advising appointment.

Requirements for the B.A. or B.G.S. Major. The major requires a minimum of 30 hours. Two courses (6 hours) are required of all majors: HIST 396 Historical Methods and HIST 696 Seminar in _____. HIST 396 Historical Methods initiates students into the discipline and prepares them for upper-division work in the major. Students should take it as soon as they decide to major in history, ideally in the sophomore or early in the junior year. HIST 696 Seminar in _____ is a capstone research experience in which students research and write an original work of history based on primary sources. It normally is taken during the senior year.

The remaining 24 hours required for the major are earned through course work chosen by the student in response to his or her interests. At least 18 of these hours must be numbered 300 or above. For the undergraduate major, courses in the many fields of study are divided into Category I (Western Orientation) and Category II (Non-Western Orientation) according to the following guidelines:

Category One: Western Orientation	Category Two: Non-Western Orientation
Ancient	Africa
Medieval	East Asia
Modern Western Europe	Latin America
History of Science	Native America
Russia/Eastern Europe	
United States	

The 30 hours of the major are distributed as follows:

HIST 396 Historical Methods

HIST 696 Seminar in _____

Five courses in either Category I or Category II

Three courses in the other Category

No more than two courses (6 hours) numbered 100-299

Exceptions to any of these requirements must be approved by petition to the director of undergraduate studies. Students are urged to consult a major adviser to construct an integrated and coherent program.

Double Majors. Many history majors choose to pursue a second major. Fulfilling the requirements of two majors in a timely fashion requires careful choice of courses. Consult a department adviser.

Requirements for the Minor. The minor requires 18 hours of history courses, distributed as follows:

6 hours in courses in Category I (Western Orientation)

6 hours in courses in Category II (Non-Western Orientation)

6 hours in elective history courses

Honors. The honors program allows exceptional students to work closely with faculty members on a research project. To graduate with honors, a student must complete the requirements for the major in history, including HIST 396 but excluding HIST 696 Seminar. Students in the honors program also must take HIST 498 Undergraduate History Honors Seminar and HIST 490 Honors Course in History, directed research. Usually, HIST 498 is offered in the fall semester and HIST 490 in the spring. Or a prospective honors student may complete HIST 696 and, by invitation, enroll in HIST 490 to develop the seminar paper into an honors thesis. Prospective honors candidates are encouraged to select a thesis topic and thesis director in the junior year.

The honors seminar helps students write their theses and allows them to learn from each other in a small-group setting. The honors coordinator assists students during both semesters.

To enroll in the program requires at least

1. A 3.5 grade-point average in history and a 3.25 cumulative grade-point average, which must be maintained throughout the student's final years of enrollment; and
2. Acceptance by a thesis director, a history faculty member, before entering the program.

Each student who completes an honors thesis must defend it in an oral examination before a thesis committee of three faculty members. The student's thesis director chairs and chooses the committee in consultation with the student and the honors coordinator. In most cases, the committee is composed of history faculty members. A student who wants the committee to include faculty members from outside the department should inform the thesis director by March 1. A copy of the thesis is deposited in the department.

Petitions for exceptions to these regulations should be submitted to the honors coordinator.

● History Courses

HIST 100 World History: An Introduction (3). H A comparative analysis of major global developments from the Neolithic down to modern times, illustrating some of the basic applications of the social sciences to historical explanation. Emphasis will be placed on the following topics: the origins of food production, urbanism, empire-building, and the great ethical and religious systems; feudalism, commerce, capitalism, and industry; colonialism, imperialism, and Communism. LEC

HIST 101 Introduction to History: ____ (3). HT H An introduction to the study of history. The course will expose the student to the major issues and methods of historical study. This will be done through the study of a specific historical period or topical area. In the study of this period or topic, students will be introduced to schemes of interpretation, critical readings and analysis, primary sources, and evaluation of evidence. LEC

HIST 102 Introduction to History, Honors: ____ (3). HT H An introduction to the study of history. The course will expose the student to the major issues and methods of historical study. This will be done through the study of a specific historical period or topical area. In the study of this period or topic, students will be introduced to schemes of interpretation, critical readings and analysis, primary sources, and evaluation of evidence. Prerequisite: Membership in the College Honors Program or consent of department. LEC

HIST 103 Environment and History (3). H Nature is our oldest home and newest challenge. This course surveys the environmental history of the earth from the extinction of the dinosaurs to the present with a focus on the changing ecological role of humans. It analyzes cases of ecological stability, compares cultural attitudes toward nature, and asks why this ancient relationship seems so troubled. (Same as EVRN 103.) LEC

HIST 104 Introduction to African History (3). NW H/W An introduction to important historical developments in Africa mainly south of the Sahara. Topics will include early history, empires, kingdoms, and city-states, the slave trade, southern Africa, partition and colonialism, the independence era, military and civilian governments, and liberation movements. Approaches will include literature, the visual arts, politics, economics, and geography. (Same as AAAS 105.) LEC

HIST 105 Introduction to Ancient Near Eastern and Greek History (3). NW H/W A general survey of the political, social, and economic developments of Mesopotamia, Egypt, Asia Minor, and Greece from Paleolithic times to 323 B.C. LEC

HIST 106 Introduction to Roman History (3). H/W A general survey of the political, social, and economic developments of ancient Rome from 753 B.C. to 475 A.D. LEC

HIST 107 Introduction to the Ancient World (3). H This course covers the history of the ancient Near East, Greece and Rome with emphasis on the origins of agriculture, writing, cities, empires, and democracy. Students will be introduced to schemes of interpretation, critical readings, and analysis, primary sources, and evaluation of evidence. LEC

HIST 108 Medieval History (3). HT H/W The history of Europe from the Barbarian Invasions to the beginning of the 16th century. LEC

HIST 112 Introduction to British History (3). H This course will introduce students to the concepts, issues, and methods of historical study, at the same time as it explores the main processes and events which shaped the history of Britain and its imperial dependencies. Students will be introduced to the nature and validity of different historical interpretations, and to the purpose and merit of historical writings. LEC

HIST 113 Europe 1500-1789, Honors (3). HT H An introduction to early modern European history, with emphasis on the cultural, political, economic, and social processes and events which helped to shape the modern world: The renaissance, the rise of the nation states, the Reformation, absolutism, and constitutionalism, the Enlightenment, and the coming of the French Revolution. Not open to students who have taken HIST 114. This Honors course is a Humanities Historical Studies Principal Course. Prerequisite: Membership in the College Honors Program or consent of department. LEC

HIST 114 Renaissance to Revolution: Europe 1500-1789 (3). HT H/W An introduction to early modern European history, with emphasis on the cultural, political, economic, and cultural forces which have helped to shape the modern world. The renaissance, the rise of nation states, the Reformation, absolutism and constitutionalism, the Enlightenment, and the coming of the French Revolution. LEC

HIST 115 French Revolution to the Present: Europe 1789-Present (3). HT H/W An introduction to recent European history, with emphasis on the social, political, economic, and cultural forces which have helped to create the Europe of today: the French Revolution, the romantic movement, the revolutions of 1848, nationalism, imperialism, Communism, and two World Wars, the cold war, and its aftermath. LEC

HIST 116 Europe 1789 to the Present, Honors (3). HT H An introduction to recent European history, with emphasis on the social, political, economic, and cultural forces which have helped to create the Europe of today: The French Revolution, the romantic movement, the revolutions of 1848, nationalism, imperialism, Communism, and two World Wars, the cold war and its aftermath. Not open to students who have taken HIST 115. This Honors course is a Humanities Historical Studies Principal Course. Prerequisite: Membership in the College Honors Program or consent of department. LEC

HIST 117 Russia, an Introductory History (3). HT H/W A survey of the evolution of Russia from its origins to the present. The focus will be on the interaction of government and society and on internal and external pressures affecting modernization and reform, revolution, and territorial expansion. LEC

HIST 118 History of East Asia (3). NW H/W A survey of the history of China, Japan, Korea, and other cultures in East Asia from premodern to modern times. Students are introduced to the major currents of East Asian history and historical methods used to study them. Not open to students with credit in upper division East Asian history. LEC

HIST 119 History of East Asia, Honors (3). NW H/W A survey of the history of China, Japan, Korea, and other cultures in East Asia from premodern to modern times. Students are introduced to the major currents of East Asian history and historical methods used to study them. Prerequisite: Membership in the University Honors Program or consent of instructor. LEC

HIST 120 Colonial Latin America (3). NW H/W The principal focus is on the evolution and analysis of societies, economies, and religions of native American peoples, the impact of Spanish and Portuguese conquests and settlement, government, trade and culture upon native civilizations, the influence of African population and culture, and the creole nature of the resulting society in the colonial period. Changes in the society and economy which presaged the movements for independence are also discussed. LEC

HIST 121 Modern Latin America (3). HT W Students are introduced to historical analysis within the context of the emergence of national identities and the process of modernization in the region. It also discusses key processes such as urbanization and industrialization and examines social movements for reform or revolution in the 20th century. The course compares social, cultural, economic, and political changes across a variety of countries since 1810, giving particular attention to the legacies of colonialism. In this way the course deals with interpretations of the processes and movements and major issues of Latin American historiography. LEC

HIST 122 Colonial Latin America, Honors (3). NW H/W The principal focus is on the evolution and analysis of societies, economies, and religions of native American peoples, the impact of Spanish and Portuguese conquests and settlement, government, trade and culture upon native civilizations, the influence of African population and culture, and the creole nature of the resulting society in the colonial period. Changes in the society and economy which presaged the movements for independence are also discussed. Prerequisite: Membership in the College Honors Program or permission of instructor. LEC

HIST 123 Modern Latin America, Honors (3). HT W Similar in content to HIST 121. Students are introduced to historical analysis within the context of the emergence of national identities and the process of modernization in the region. The course compares social, cultural, economic, and political changes across a variety of countries since 1810, giving particular attention to the legacies of colonialism. It also discusses key processes such as urbanization and industrialization and examines social movements for reform and revolution in the 20th century. In this way the course deals with interpretations of these processes and movements and major issues of Latin American historiography. Prerequisite: Membership in the University Honors Program or permission of instructor. LEC

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HIST 128 History of the United States Through the Civil War (3). HT H A historical survey of the United States from the peopling of the continent through the Civil War. This survey is designed to reflect the diversity of the American experience, to offer the student a chronological perspective on the history of the United States, and to explore the main themes, issues, ideas, and events which shaped that history. LEC

HIST 129 History of the United States After the Civil War (3). HT H A historical survey of the American people from Reconstruction to the present. This survey is designed to reflect the diversity of the American experience, to offer the student a chronological perspective on the history of the United States, and to explore the main themes, issues, ideas, and events that shaped American history. LEC

HIST 130 History of the United States Through the Civil War, Honors (3). HT H A historical survey of the United States from the peopling of the continent through the Civil War. This survey is designed to reflect the diversity of the American experience, to offer the student a chronological perspective on the history of the United States, and to explore the main themes, issues, ideas, and events which shaped that history. Not open to students who have taken HIST 128. Prerequisite: Membership in the College Honors Program or consent of department. LEC

HIST 131 History of the United States After the Civil War, Honors (3). HT H A historical survey of the American people from Reconstruction to the present. This survey is designed to reflect the diversity of the American experience, to offer the student a chronological perspective on the history of the United States, and to explore the main themes, issues, ideas, and events which shaped that history. Not open to students who have taken HIST 129. Prerequisite: Membership in the College Honors Program or consent of department. LEC

HIST 136 Early Science to 1700 (3). H Surveys the Western scientific tradition from roots in ancient Egypt, Mesopotamia, and Greece to the Scientific Revolution in seventeenth-century Europe. Focuses on the theoretical, methodological, and institutional development of the physical and bio-medical sciences. Addresses interactions of science with the technological, religious, philosophical, and social dimensions of Western culture. LEC

HIST 137 History of Modern Science (3). H Surveys the history of science from the seventeenth century to the present with study of the changing theoretical, institutional, and social character of the scientific enterprise. Addresses physical, biological, and social sciences with attention to the chemical revolution at the turn of the nineteenth century, evolutionary biology, the new physics of the early twentieth century, and the professionalization of social science. Relates scientific changes to historical developments in technology, religion, national traditions in Europe and the U.S.A., and non-Western cultures. LEC

HIST 160 Introduction to West African History (3). NW H This course treats West African history through the first part of the twentieth century. The student is provided with a perspective on the major historical patterns that gave rise to West Africa's development as an integral part of world history. Special attention is paid to anthropological, geographical, and technological developments that influenced West African political and socioeconomic changes. This is an introductory course. (Same as AAAS 360.) LEC

HIST 250 Study Abroad Topics in: _____ (1-5). H This course is designed for the study of special topics in History at the freshman/sophomore level. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

HIST 300 Modern African History (3). NW H/W A survey of social, political, and economic developments during the colonial era and independence struggles, followed by a closer examination of the contemporary experience in a selected country or region. (Same as AAAS 305.) LEC

HIST 303 Sin Cities (3). H This course offers a comparative global introduction to the history of the modern city by looking at the ways in which certain metropolises developed an attractive underbelly of decadence at the same time as they sought to be centers of refined and orderly cosmopolitan life. The course examines topics such as popular culture, gambling, prostitution, crime, violence, nightlife, tourism, and corruption in the context of the increased social mobility that characterized the beginning of the industrial age and that has extended into the 21st century. Students investigate the changing relation between work and leisure, spectacle and consumerism, and urban space and the struggle for order. LEC

HIST 304 1642, 1688, 1776: Three British Revolutions (3). H Explains and analyzes the three revolutions in the English-speaking world which, more than any others, are held to have laid the foundations of modernity. Themes discussed include social, intellectual, and political developments, structures, and conflicts. 1642 and 1688 are treated in the setting of England's relations with Scotland and Ireland, and against the background of European wars of religion. 1776 is analyzed in a transatlantic context as a civil war within the wider British polity. LEC

HIST 305 The Scientific Revolution (3). H Describes and analyzes the factors producing a Scientific Revolution in early-modern Europe. Focuses on fundamental changes in astronomy-cosmology, physics, and biology from Copernicus to Newton. Examines the emergence of experimental method as an essential part of Western science. Portrays the development of new forms of scientific organization and the cultural frame-

works that bore and shaped them. Surveys the various interpretations of this period expressed by current historians of science. LEC

HIST 306 Science and Western Culture (3). H Analyzes the institutional, social, technological, and political circumstances of science in the Western tradition. Examines the place of science in pre-modern European settings. Emphasizes the shifting centers of national scientific prominence since the seventeenth century from Italy to Britain to France to Germany to the U.S.A. LEC

HIST 307 Modern African History, Honors (3). NW H An intensive version of HIST 300. A survey of social, political, and economic developments during the colonial era and independence struggles, followed by a closer examination of the contemporary experience in a selected country or region. Open only to students admitted to the University Honors Program, or by consent of the instructor. (Same as AAAS 307.) LEC

HIST 309 History of Chemistry (3). H Birth of modern chemical science from roots in Greek natural philosophy, alchemy, Renaissance medicine, and technology. The Chemical Revolution of Lavoisier and Dalton. Maturity of chemistry in the 19th and 20th centuries, along with an examination of the growth of chemical institutions and the rise of chemical industry. Emphasis on developments from the 18th century to the present. (Same as CHEM 309.) LEC

HIST 310 American Culture, 1600-1876 (3). H An examination of the major historical shifts, trends, and conflicts that have shaped the multicultural nature of life in the United States from the initial European settlements to 1876. In addition to tracing developments in literature, architecture, drama, music, and the visual arts, this course will investigate patterns and changes in the popular, domestic, and material culture of everyday life in America. (Same as AMS 310.) Prerequisite: AMS 100 or AMS 110 or HIST 128. LEC

HIST 311 Great Lives in Science (3). H This course examines the lives of selected great scientists. Lectures and biographical readings deal with scientists who lived in the period between the seventeenth century and the present. Through comparative biography, the course assesses the theoretical, methodological, institutional, and social development of modern science. LEC

HIST 312 American Culture, 1877 to the Present (3). H An examination of the major historical nature of life in the United States from 1877 to the present. In addition to tracing developments in literature, architecture, drama, music, and the visual arts, this course will investigate patterns and changes in the popular, domestic, and material culture of everyday life in America. (Same as AMS 312.) Prerequisite: AMS 100 or AMS 110 or HIST 129. LEC

HIST 313 Conspiracies and Paranoia in American History (3). H The theme of conspiracy is a recurring motif in American history. This course uses a case-study method to revisit episodes such as the Salem witch trials, the movement against freemasonry, the Slave Power conspiracy, and more recent obsessions such as UFOs and the assassination of John F. Kennedy to explain why so many Americans have embraced conspiracy theories to explain mysterious events and dramatic social change. The course will rely on primary accounts, fiction, and film, as well as secondary historical literature, to examine both "real" and "imaginary" conspiracies and their effects on the politics, culture, and society of the United States. LEC

HIST 319 History, Women, and Diversity in the U.S. (3). H This survey course explores the history of being female in America through a focus on the ways differences in race, sexuality, ethnicity, class, and life cycle have shaped various aspects of women's lives. Themes to be explored could include, but are not limited to: social and political activism; intellectual developments; family; women's communities; work; sexuality; and culture. LEC

HIST 320 From Goddesses to Witches: Women in Premodern Europe (3). HT H This course examines the social, cultural, and political contexts of women's spirituality and their relations to gender relations in Europe from about 30,000 B.C.E. to the 16th century Protestant Reformation. Lectures move both chronologically and topically, covering such subjects as goddess-worshipping cultures, women's roles in Christian and Jewish societies, symbols of women, and male attitudes toward women. Students will be able to participate in weekly discussions of primary and secondary source readings about women. (Same as WS 320.) LEC

HIST 321 From Mystics to Feminists: Women's History in Europe, 1600 to the Present (3). HT H This survey of women's history in Europe looks at changing patterns of women's economic roles and family structures in preindustrial and industrial society, the importance of women in religious life, cultural assumptions underlying gender roles, and the relationship of women to political movements, including the rise of feminism. (Same as WS 321.) LEC

HIST 322 The World of the Middle Ages (2). H/W A general survey of the development of medieval ideas and their expression in religion, learning, literature, and the arts. Weekly lectures must be supplemented by preceptorial sections on special aspects of medieval culture, which cooperating professors will offer as reading courses in their several departments. Thus, a student might take the general lecture course for two credit hours of history and supplement it with one credit hour of readings in art history or French Gothic architecture.

Inquiries about KU's affirmative action program, equal opportunity policy, or nondiscrimination policy should be made to the assistant director, Dept. of Human Resources and Equal Opportunity, Carruth-O'Leary Hall, 1246 West Campus Rd., Room 103, Lawrence, KS 66045-7505, (785) 864-3686, www.hreo.ku.edu.

Double majors are encouraged for students in history.

The lectures will treat four major topics: the rise of Christianity; Byzantine and Moslem civilization; Latin scholastic learning; and vernacular literature. Prerequisite: Concurrent enrollment in HIST 323. LEC

HIST 323 Studies in: _____ (1). U An intensive reading course in a particular aspect of the civilization and culture of Medieval Western Europe. Prerequisite: Concurrent enrollment in HIST 322. LEC

HIST 324 History of Women and the Body (3). H This course examines different notions about women and their bodies from a historical perspective. It discusses the arguments and circumstances that have shaped women's lives in relation to their bodies, and women's responses to those arguments and circumstances. This course covers a wide geographical and chronological spectrum, from Ancient societies to the present, from Latin America and the Middle East, to North America and Western Europe. (Same as WS 324.) LEC

HIST 326 Native American Civilizations and Their European Conquerors (3). NW H/W The societies, economies, and cultures of Native American peoples in Brazil, Peru, Mexico, and the Southwestern United States will provide the main focus of this course to understand the culture and values of those who preceded the Europeans in the Americas. European culture is also examined, including the motivations for exploration and conquest. The details of the particular conquests and how they affected the resulting composite society will also be discussed, using contemporary eye-witness accounts, films recreating the action, and modern accounts. LEC

HIST 329 History of War and Peace (3). HL H A study of the changing nature of warfare and the struggle to bring about peace. Topics include pacifism, the "military revolution" that created the first professional armies; the development of diplomatic immunity, truces, and international law; the peace settlements of Westphalia, Utrecht, Vienna, Versailles, and San Francisco; the creation of peace movements and peace prizes; the evolution of total war, civil war, and guerrilla warfare involving civilians in the twentieth century; the history of the League of Nations and United Nations; and the rise of intergovernmental and non-governmental organizations. (Same as EURS 329.) LEC

HIST 330 Revolt and Revolution in Early Modern Europe (3). H A study of forces giving rise to riots, rebellions, and revolution in Western Europe from 1600-1790. The course will examine social and ideological aspects of famine, religious persecution, taxation, war, landlord-peasant relations, and the increasing power of kings. LEC

HIST 331 Atlantic Societies, 1450-1800: A Comparative History of European Colonization (3). H This course offers a comparative history of the European (Portuguese, Spanish, French, English, and Dutch) colonization of the Americas. It examines the interaction among peoples and cultures across the Atlantic, from the age of European exploration to the start of the independence movements in the Americas. Themes that will receive special attention include: comparing patterns of colonization, the forging of American societies of European, Native American, and African cultures, the slave trade, and the history of sugar production. LEC

HIST 334 The Great War: The History of World War I (3). H A historical survey of the causes, course, and consequences of the conflict, 1878-1919, stressing its socio-economic dimensions as well as its political ramifications and military aspects. Considerable use will be made of visual aids. No prerequisites. LEC

HIST 340 The History of the Second World War (3). H A survey of the origins, course, and consequences of the war, 1930-1945. Political, economic, military, and social aspects will be dealt with in the context of their global effects. Extensive use will be made of motion pictures and other media. LEC

HIST 341 Hitler and Nazi Germany (3). H/W An examination of the rise of Hitler and Nazism, beginning with the breakdown of 19th century culture in the First World War and continuing through the failure of democracy under the Weimar Republic. The course will also discuss the impact of Nazism on Germany and how Nazism led to the Second World War and the Holocaust. LEC

HIST 342 The Rise and Fall of Communist Nations Since 1917 (3). H The course covers: (a) Marxism and Marxist parties in Western Europe and Russia to 1914; the development of the Stalinist system in the Soviet Union to 1939; Soviet foreign policy in peace and war; the imposition of Stalinist Communism and Soviet domination on Eastern Europe after World War II; post-1945 Soviet and Eastern European Communist regimes, dissidents in the U.S.S.R. and Eastern Europe, and Eastern European opposition movements; Gorbachev and the collapse of Communist governments in Eastern Europe and U.S.S.R. in 1989-91; (b) the history of Communist and neo-Communist states, their policies and problems in Asia, the Caribbean and Central America, also Africa, the Middle East and Afghanistan. LEC

HIST 343 The Holocaust in History (3). H The systematic murder of the Jews of Europe by the Nazis during World War II is one of the most important events of modern history. This course studies the Holocaust by asking about its place in history. It will compare other attempted genocides with the Holocaust and examine why most historians argue that it is unique. Other topics covered will include why the Holocaust occurred in Europe when it did, the changing role of anti-Semitism, and what the effects of the Holocaust on civilization

have been. It will also discuss why some people have sought to deny the Holocaust. The course will conclude by discussing the questions people have raised about the Holocaust and such issues as support for democracy, the belief in progress, the role of science, and the search for human values which are common to all societies. LEC

HIST 344 The Great Irish Famine (3). H The famine in Ireland between 1845 and 1849, in which an estimated one million people died, was a turning point in Irish history, and an important event in British and American history. This course focuses on the Great Hunger, its origins and consequences. The main themes examined will be the political and economic impact of the Act of Union (1801) between Ireland and England; the patterns of Irish trade, landholding and agriculture; the role of the "splendid spud," the mass starvation of the 1840's; the English response to famine; and the demographic effect of famine and emigration (to Canada and the United States). The course will also look at famine in other British possessions, notably India, and it will confront both the charge of genocide against the English, and the famine's contribution to Irish myth and memory. LEC

HIST 345 Hard Times: The Depression Years in America, 1929-1941 (3). H An analysis of the experiences of the American people during the Great Depression. Attention will also be given to the global dimensions of the crisis, socioeconomic dislocation, cultural and institutional change, and the impact of the Asian and European wars. LEC

HIST 346 Law and Society in America (3). H Law and lawyers have powerfully shaped American values and institutions. This course explores law's impact on American society from the age of European colonization through present. Topics include liberty, public order, race and ethnicity, the family, property, speech, environment, and self-government. The course also examines the changing images of lawyers and the law over time. Course materials include not just statutes and court decisions, but literature, imagery, and popular culture materials. LEC

HIST 347 Environmental History of North America (3). H A survey of changes in the landscape and in people's perceptions of the natural world from 1500 to present. Topics include agroecology, water and energy, the impact of capitalism, industrialism, urbanization, and such technologies as the automobile, and the origins of conservation. (Same as EVRN 347.) LEC

HIST 348 History of the Peoples of Kansas (3). H A survey of culture and society in Kansas from prehistory to the present. Topics include Native American life, Euro-American resettlement, Bleeding Kansas and the Civil War, agricultural settlement, urbanization and industrialization, depression and recovery, and modern Kansas in transition. Emphasis in the course will be on social and economic conditions, the experience of ethnic and racial groups, inter-racial relations, and the role of women. LEC

HIST 350 The Korean War, 1950-1953 (3). H An examination of the origins, pattern of development, and legacy of this still unsettled conflict, which in many ways set the tone for the entire post-1945 era of the Cold War. Points of emphasis will include the motives and policies of the major participants (Koreans, Americans, Chinese, and Soviets), as well as the effects of the war on their domestic politics and foreign policy positions. LEC

HIST 353 Indigenous Peoples of North America (3). NW H/W This course surveys the history of the first peoples to inhabit North America from prehistory to present. Commonly and collectively referred to as American Indians, indigenous peoples include a diverse array of nations, chiefdoms, confederacies, tribes, and bands, each of which has its own unique cultures, economies, and experiences in dealing with colonial and neocolonial powers. This class seeks to demonstrate this diversity while at the same time providing an understanding of the common struggle for political and cultural sovereignty that all indigenous nations face. Indigenous nations that have developed a relationship with the United States will receive primary focus, but comparative reference will be made to First Nations of Canada. LEC

HIST 360 Science and Religion (3). H The interaction and significant confrontations between science and religion will be considered together with the religious responses to science and technology. LEC

HIST 365 Invention of the Tropics (3). H This course surveys the history of the tropical environment and its peoples from Europe's first encounter to today's ecotourism boom. It focuses on portrayals of the tropics in historical travel accounts and films. Through these sources, we seek to understand how science, technology, and tourism have been used, in turn, as instruments of progress and destruction, tools of empire and national liberation. Case studies are drawn from Latin America, Africa, Oceania, and Asia. LEC

HIST 369 Colonialism and Revolution in the Third World, Honors (3). H This course will study the structure and dynamics of colonialism and neo-colonialism in the third world beginning in the 19th Century and continuing to the 1980s. It will also examine responses to these systems, from small-scale resistance to nationalist revolutions. Attention will be given to the relationship between ideology and collective behavior. Case studies will be drawn from Africa, Asia, and Latin America. Prerequisite: Membership in the University Honors Program or permission of instructor. LEC

HIST 370 Violence and Conflict in Latin American History (3). H This course treats the history of Latin America since the European conquest through the prism of violence and social conflict. It traces the roots of the region's social collapse during the twentieth century to political and cultural factors in the colonial and early national periods. Using films and literature in addition to historical texts, the course discusses the sources of nationalism, civil wars, banditry, urbanization, violent dissent, military dictatorships, human rights abuses and guerrilla insurgencies as well as the political uses of violence made by different social groups. LEC

HIST 371 The Cultural History of Modern Latin America (3). H This course explores themes such as the evolution of national identities, the conflict between the city and the countryside, exile, the surrealist imagination and the cultural resistance against foreign influences through an examination of the literature, film, art, music, religions and popular and material culture of 19th and 20th century Latin America. LEC

HIST 372 Violence and Conflict in Latin American History, Honors (3). H/W This course treats the history of Latin America since the European conquest through the prism of violence and social conflict. It traces the roots of the region's social collapse during the 20th century to political and cultural factors in the colonial and early national periods. Using films and literature in addition to historical texts, the course discusses the sources of nationalism, civil wars, banditry, urbanization, violent dissent, military dictatorships, human rights abuses, and guerrilla insurgencies as well as the political uses of violence made by different social groups. Not open to students who have taken HIST 370. Prerequisite: Membership in the University Honors Program or consent of instructor. LEC

HIST 373 The Supreme Court and Religious Issues in the United States (3). H Historical study of the interpretation of the religion clauses of the First Amendment with special reference to the questions of establishment, the free exercise of religion, freedom of religious belief, worship, and action, and religion and the public schools. Not open to freshmen. (Same as REL 373.) LEC

HIST 375 The Supreme Court and Religious Issues in the United States, Honors (3). H Historical study of the interpretation of the religion clauses of the First Amendment with special reference to the questions of establishment, the free exercise of religion, freedom of religious belief, worship, and action, and religion and the public schools. Open only to students in the University Honors Program or by permission of the instructor. (Same as REL 375.) LEC

HIST 380 Revolutionary Europe: The People in Arms (3). H/W A survey of the political, social, economic and cultural transformation of Europe in a century of turmoil, from the Old Regime through the liberal and national revolts of 1848, the Paris Commune and the Russian Revolution. LEC

HIST 385 Themes in British History (3). H For students enrolled in the annual summer Study Abroad program. This course examines some of the main events and trends in British history, from the earliest times to recent British history. The specific historical themes investigated will depend upon the instructor. The course can be taken only via enrollment in the KU British Summer Institute in the Humanities. Prerequisite: Approval for enrollment in the Summer Institute through the Study Abroad office. LEC

HIST 396 Historical Methods (3). H This course introduces students to the ways that historians discover, analyze and write about the past through substantial written work. Students will learn (1) to determine the value of thinking historically; (2) to understand and evaluate ways that historians write about the past; (3) to evaluate the sources and the nature of arguments among historians; (4) to find and use library and other resources on history; (5) to develop their own skills in research and writing about history; and (6) to master professional standards of presenting their findings. This course is required of all history majors and is a prerequisite for HIST 696 Seminar in: _____. Prerequisite: Six hours of History and declaration of History as a major, or consent of instructor. LEC

HIST 397 From Mao to Now: China's Red Revolution (3). NW H This course on China's Communist revolution considers the evolution of Maoism, or Chinese Communism, from its ideological origins through its implementation during and after the Chinese Communist revolution. It examines major Maoist movements such as Land Reform, the Great Leap Forward, the Cultural Revolution, and the cult of Mao. It further considers the globalization of Maoism by examining examples of other Maoist revolutions and revolutionaries in places like Cambodia, Peru, and Nepal. LEC

HIST 398 Introduction to History of Japan: Anime to Zen (3). NW H/W This course provides a foundation for study of Japanese history. It combines lectures on the scope of Japanese history over the past 2,000 years with discussions of topics key to the development of Japanese civilization such as religion and literature. We analyze how different media, such as film, Japanese animation (anime), and art can be used as historical sources, and how these shape our understanding of Japan. Students hone their ability to analyze both thematic and historical questions through writing assignments and discussions. LEC

HIST 399 The Samurai (3). NW H/W Japan's warrior class, the samurai, dominated politics and society for more than half of Japan's recorded history. This course traces the history of the samurai from their origins to the dissolution of their class in 1877, examining their military role, philosophy, and cultural contributions. It also considers continued references to the "spirit of the samurai" in the twentieth century. LEC

HIST 401 Case Studies in: _____ (2-3). H Examination of a limited aspect of a general subject; other aspects of the same subject may be offered other semesters. LEC

HIST 402 Roman Military History (3). H The Defense of the Roman Frontiers. This course emphasizes the development of the frontiers of the Roman empire from Caesar to the late second century. It includes the origins of the Germans and their society, the Celtic background, and the relationship between the emperor and the army. LEC

HIST 404 Technology: Its Past and Its Future (3). H An examination of the role of technology and its influence on society. The historical development of technology will be traced up to modern times with an emphasis on its relations to the humanities. Attention will be given to the future of different branches of technology and alternative programs for their implementation. (Same as ENGR 304.) LEC

HIST 407 History of Science in the United States (3). H Traces the evolution of a scientific tradition in American culture. Examines the growth of scientific ideas and institutions under European and indigenous influences. Studies the interactions of science with technological, theological, political, and socio-economic developments. LEC

HIST 410 The American Revolution (3). H This course will focus on the meaning the American Revolution had for different groups of Americans. Particular emphasis will be on the relationship between ideology and experience, and the impact of the Revolution on such groups as women, slaves, Indians, African-Americans, the poor, merchants, and loyalists. LEC

HIST 411 The New Republic: U.S. History, 1787-1848 (3). H This course traces the history of the United States from the debates over the ratification of the Constitution until 1848. Major topics include the republican experiment, the Market Revolution, the Age of Jackson, religious revivals and reform, slavery and the cotton kingdom, the Manifest Destiny. Historians view the period as vital to understanding the development of the society, economy, culture, and politics of the modern United States. LEC

HIST 412 The Civil War in America, 1828-1877 (3). H The United States from the rise of sectional conflict through the disintegration and reunification of the Union. LEC

HIST 413 The Rise of Industrial America, 1877-1920 (3). H The political, economic, social, and intellectual development of the United States from 1877 to 1920. LEC

HIST 420 Dante's Comedy (3). H The complete Divine Comedy will be read in English translation, with equal stress on each of its three parts: the Inferno, the Purgatory, and the Paradise. No prerequisite. (Same as HWC 410.) LEC

HIST 424 Venice and Florence in the Renaissance (3). H Comparative urban study of Florence and Venice from the thirteenth through the sixteenth centuries. Principal subjects are the distinctive economies of the city-states, political developments, Renaissance humanism, patronage of the arts, family life, and foreign policy. LEC

HIST 425 History of the Mediterranean World, 1099-1571 (3). H This course examines Mediterranean civilizations from the First Crusade to the Battle of Lepanto. Topics include the commercial revolution, medieval colonization, the Byzantine and Ottoman states, shipping and navigation, and the Atlantic. Equal coverage of the eastern and western Mediterranean. LEC

HIST 440 War and United States Society (3). H A survey of the American experience in military conflict, both foreign and domestic, from the colonial period to the present. In addition to the strategic and tactical aspects of war, the course will treat the political, economic, and social effects in their national and global contexts. Extensive use will be made of audio-visual materials. LEC

HIST 444 Frozen in Time: Politics and Culture in the Cold War, 1945-75 (3). H This course deals with the interactions between Cold War culture and domestic and international politics chiefly from the American and to some degree comparative perspective. It focuses on the period 1945-1975, and makes use of films, television, music, works of science fiction and related genres, and other cultural manifestations to examine such themes as programs of domestic and international repression, consensus politics, cultural imperialism, gender roles, and class, status, and racial dynamics in the context of what was perceived as bipolar rivalry. LEC

HIST 450 Study Abroad Topics in: _____ (1-5). H This course is designed for the study of special topics in History at the junior/senior level. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

HIST 470 Popular Culture in Latin America and Africa (3). NW H This course offers a comparative assessment of the origins and practice of various forms of popular culture in the 20th Century in these two regions.

Theories that explain the links between modernism and popular culture are discussed. Topics investigated may include the impact of spectacle on the urban environment, the legacies of colonialism in the sphere of culture, and the intersection of public space and popular culture. Forms such as music, cinema, street theatre, and sports are explored. LEC

HIST 490 Honors Course in History (1-3). H May be taken more than once; total credit not to exceed six hours. Prerequisite: Approval of the Coordinator of the Honors Program of the Department of History. IND

HIST 492 Readings in History (1-4). H Investigation of a subject selected by the student with the advice and direction of an instructor. Individual reports and conferences. Prerequisite: Ten hours of college history including at least two upper-class courses and a "B" average in history. Consent of instructor. IND

HIST 498 Undergraduate History Honors Seminar (3). H Required for students in the History major honors program, normally in the second semester of their honors projects. Prerequisite: Approval of the Coordinator of the Honors Program of the Department of History. Another seminar experience may be substituted, with the approval of the Honors Coordinator. LEC

HIST 500 History of the Book (3). H Brief history of writing materials and handwritten books; history of printed books from the 15th century as part of cultural history; technical progress and aesthetic change. Offered every second year. (Same as ENGL 520.) LEC

HIST 501 Heroic and Archaic Ages of Ancient Greece (3). H/W A study and analysis of the political, social, and intellectual developments from prehistoric times to 525 B.C. with special emphasis upon the Mycenaean, Homer, and rise of the Greek city-states. LEC

HIST 502 Development of Ancient Greece, ca. 1000-300 B.C. (3). H/W Emphasis on the ancient sources and texts, developments in political institutions and society, the changing definitions of personal, cultural, and national identities, and the cultural tensions between Greece and the cultures to the west and east, especially Italy and Persia. No knowledge of the ancient languages is required. (Same as CLSX 502). LEC

HIST 503 The Ancient History of the Near East (3). H/W History of the rise of civilization in the ancient Near East from the earliest times to 500 B.C., including the areas of Egypt, Mesopotamia, Syria, Palestine, and Asia Minor. An archaeological approach will be used in focusing attention on the cultural achievements of the peoples in these areas. LEC

HIST 504 Canon Law, English and Continental (3). H An examination of the historical development and influence of the legal system of the Christian church from its earliest beginnings to the sixteenth-century Reformation and beyond. The course will emphasize the reciprocal interaction between the church's legal system and lay society in medieval Christendom and will compare developments on the Continent with those in England. LEC

HIST 505 Studies in Greek Civilization: ____ (3). H An in-depth investigation of a particular aspect of ancient Greece, its history, and civilization from the Bronze Age to Alexander the Great. LEC

HIST 506 Roman Republic (3). H An investigation of the history of Rome from its origins to the end of the Republic in 31 B.C.E., emphasizing political, social and economic aspects of the development of Rome from a minor city to a world power. LEC

HIST 507 Early Roman Empire (3). H A political, social, and economic investigation of the early Roman Empire from Augustus to Diocletian emphasizing how Rome held together a world-empire until economic and military problems forced a complete reorganization of the imperial system. LEC

HIST 508 Late Roman Empire (284-527) (3). H An investigation and analysis of the later Roman Empire from Diocletian to Justinian, emphasizing the Christianization of the empire, its division into Western and Eastern/Byzantine Empires, and the barbarian invasions. LEC

HIST 509 Multinational Corporations: The Role of Money and Power (3). H This course explores the origins, historical evolution, and global expansion of multinational corporations since the 1880s. Particular attention is devoted to U.S.-directed multinational businesses with both market-oriented and supply-oriented direct investments abroad and the competitive advantages gained by American capital, management, and marketing expertise vis-a-vis foreign firms operating in Canada, Europe, Asia, Latin America, and Africa. An objective of the course is to assist the student of international business in understanding, analyzing, and addressing various complex, interrelated and interdependent trends and issues in the world community that have had a critical impact on business performance in the international marketplace. LEC

HIST 510 Topics in: ____ (2-3). H LEC

HIST 511 Roman Decline and Medieval Origins (3). H This course explores Roman political, social, economic, and cultural conditions during the Imperial period, with special emphasis on the causes and events of the decline of the West leading to the establishment of medieval institutions and culture. LEC

HIST 512 The Medieval Empire (3). H/W Germany and the Holy Roman Empire from Charlemagne to Charles V, 800-1519. LEC

HIST 513 Early Medieval Culture (3). H/W The formation of a new civilization in Western Europe between the decline of the Roman Empire

and the First Crusade is the central stress in this topical study of the institutions and ideas characteristic of the Latin West, 300-1100. LEC

HIST 514 Roman and Germanic Law (3). H/W Comparative study of classical Roman law and the legal systems of the Germanic invaders. LEC

HIST 515 The Crusades in Cross-cultural Perspective (3). H This course examines the development and evolution of the crusade as well as the history of the crusading movement from the 11th to the 15th centuries. Through an analysis of documents from Christian, Jewish, and Muslim perspectives, this course aims to consider "the Crusades" in the broadest possible context. One of the key questions to be addressed in this course is: how did these expeditions to the Holy Land both reflect and influence cross-cultural relations in the medieval Mediterranean World? LEC

HIST 516 Later Medieval Culture (3). H The civilization of Medieval Europe at its height (1100-1350); its subsequent disintegration and transformation. LEC

HIST 517 Foundations of European Law (3). H A history of the three major legal traditions—Roman civil law, canon law, and English common law—in Western Europe from the Roman Law revival in the eleventh century to the age of the Reception in Germany about 1500. Special emphasis on the sources of law, the development of formal law teaching, and the emergence of the legal profession. LEC

HIST 518 Economic and Social History of Europe, 1750-1914 (3). H/W Provides a historical treatment of the economies and societies of Western and Central Europe (principally Britain, France, and Germany) from 1750 to World War I. The course attempts to explain the central forces behind the transition from predominantly peasant "slow-growth" economies to the position of mature industrial powers. The social implications of industrialization are treated as are the extra-European connections of the industrializing states. Attention is devoted to the common and individual problems of these maturing industrialized societies within a global setting. LEC

HIST 519 European Intellectual History of the Seventeenth Century (3). H/W This course will trace the development of the European intellectual tradition in the crucial period of the seventeenth century. Such topics as the changing views on religion, the decline of Humanism, and the rise of natural science form the center of the course and will be studied against the background of social and political change. Class sessions will consist of discussions of both primary and secondary sources. LEC

HIST 520 The Age of the Renaissance (3). H/W A survey of economic, political, social, and cultural developments in Italy in the 14th and 15th centuries, with special attention to those elements in the life of the age which look forward to the modern world. LEC

HIST 521 The Age of the Reformation (3). H/W The Protestant revolt of the 16th century. LEC

HIST 522 The Age of Religious Wars, 1540-1648 (3). H/W The Catholic or Counter-Reformation and the wars of religion, including the Thirty Years War. LEC

HIST 523 Europe between Absolutism and Revolution (3). H/W An investigation of why the major states of Europe underwent a crisis at the end of the 1700s that culminated in a wave of democratic revolutions, reforms, and the wars of Napoleon. LEC

HIST 524 The French Revolution (3). H/W A study of the origins, development, and impact of the French Revolution, beginning with a description of France in the 18th century and ending with a look at France under Napoleon. LEC

HIST 525 Modern France: From Napoleon to de Gaulle (3). H/W A survey of the history of modern France. Beginning with an exploration of the impact of the Revolutionary and Napoleonic era on French institutions, politics, and society, this course examines the search for a viable political system, the acquisition of a colonial empire, the church-state controversy, and the rise of socialism in the nineteenth century, and considers the impact of two world wars on French society, the rapid modernization of countryside and cities, and French political leadership from Clemenceau to Blum to de Gaulle in the twentieth century. LEC

HIST 526 Nineteenth-century Europe, 1789-1914 (3). H/W A survey of the major political, economic, and social developments in Europe from the French Revolution to the outbreak of the First World War, exploring the impact of the "Dual Revolution" (French and Industrial) with which the century began and tracing the evolution of ideologies such as liberalism, nationalism, and socialism in a century which brought Europe to the pinnacle of its power and influence. LEC

HIST 527 Recent European History, 1870 to the Present (3). H/W A study of the issues and themes that have shaped the contemporary European world, exploring European politics, economy, and society from the zenith of Europe's power and influence at the turn of the century through two world wars and into the contemporary era. This survey begins with the period of consolidation of a system of major national states in western Europe and ends with the search for alternatives to that system in the break-up of empires and movements for European unity in the post-World War II era. The course also considers the emergence of the states of central and eastern Europe and examines the impact of the Russian Revolution and the Soviet state on European affairs. Not open to those who have credit in either HIST 435 or HIST 436. LEC

All KU undergraduate students should read the General Information and General Regulations chapters of this catalog, pages 11 through 50.

Students in all areas are eligible for Undergraduate Research Awards.

The KU Language Across the Curriculum program offers courses and discussion sections in fields like business, history, politics, and the environment that are taught in foreign languages. See Other Programs.

HIST 528 Economic History of Europe (3). S/W An introductory study of European economic history from the Middle Ages to the 1980s. Investigates the sources of economic growth, and the interaction between economic forces and social institutions. Topics covered will include the rise of commerce, the agricultural and industrial revolutions, imperialism, the Great Depression, and European recovery after World War II. (Same as ECON 535.) Prerequisite: ECON 104 or ECON 142 and ECON 144. LEC

HIST 529 Intellectual History of Nineteenth-century Europe (3). H/W A survey of significant currents of thought during this period. Attention to the problem of the relationship between ideas and the historical situation. LEC

HIST 530 History of American Women—Colonial Times to 1870 (3). H A survey of women's history in the United States that will consider women's roles as housewives, mothers, consumers, workers, and citizens in preindustrial, commercial, and early industrial America. (Same as AMS 510 and WS 510.) LEC

HIST 531 History of American Women—1870 to Present (3). H A survey of women's history in the United States that will include radical and reform movements, the impact of war and depression, professionalization, immigration, women's work, and the biographies of leading figures in women's history. (Same as AMS 511 and WS 511.) LEC

HIST 532 History of Women and Work in Comparative Perspective (3). H This course explores the connection between historical changes in the labor process and the occupational choices available to women in different countries. Through discussion and analyses of texts, students will evaluate the construction of a gendered division of work as shaped over time by economic, cultural, and political forces. The chronological and geographical focus may vary depending on the instructor. (Same as AMS 512 and WS 512.) LEC

HIST 533 The History of Women and the Family in Europe, from 1500 to the Present (3). H/W This course examines how women's roles and the family have changed in Europe from the early modern period to the present. It will consider the relation of women and the family to such cultural, social, and political changes as the Reformation, the French Revolution, middle class culture, industrialization, and the mass movements of the 19th and 20th centuries. LEC

HIST 534 Origins of Modern Germany—Reformation to 1648 (3). H/W This course will concentrate upon the impact of the Reformation on German religious, social, and political life. LEC

HIST 535 Modern German History—1648-1848 (3). H/W This course will trace the impact of the Thirty Years' War upon German religious, social, and political life, the development of the principalities, and the cultural revival of the late eighteenth and early nineteenth centuries. LEC

HIST 536 Modern German History—1848 to the Present (3). H/W This course will trace the development of German intellectual, social, and political life from the revolutions of 1848 through the foundation of the Second Reich, the impact of World War I, and the rise and fall of Nazism, and will conclude with an examination of West and East Germany and reunification. LEC

HIST 537 France from the Renaissance to the French Revolution (3). H A study of the major political developments of early modern France, including absolutism, corporate institutions, and popular revolts, as well as an examination of the everyday life and beliefs of ordinary people. LEC

HIST 538 European Intellectual History of the Eighteenth Century (3). H An examination of the writing, ideas, and language of the major thinkers of the Enlightenment, including Diderot, Hume, Kant, Lessing, Rousseau, and Voltaire. LEC

HIST 539 Britain and Ireland to 1200 C.E. (3). H This course uses history, literature, and archaeology to contrast the development of Anglo-Saxon and Celtic societies, from the Iron Age to the Norman invasions. Topics covered include King Arthur, epics and sagas, Christianization, kingship, women, economic development, and Vikings. Format includes both lecture and discussion. LEC

HIST 540 Medieval France (3). H/W Government and society from the Franks to Francis I, 395-1515. LEC

HIST 541 British History, 1500-1660 (3). H An introduction to the impact on the British Isles of the Reformation and Renaissance; the development of the Tudor state; Parliament; the Stuart monarchy; the Anglican counter-reformation; civil war; the Cromwellian experiment. LEC

HIST 542 English Law, Historical and Comparative Aspects (3). H A survey of the development of the English legal system from the fifteenth to the nineteenth centuries. The course will proceed thematically and examine various issues in the development of English private law. Where appropriate, comparisons will be drawn to the development of parallel doctrines and institutions in the civil law based systems of Europe. LEC

HIST 544 Britain and Ireland from 1200 to 1500 (3). H Survey of social, cultural, political, and economic developments with particular emphasis on interaction between Anglo-Norman/English and Celtic societies. LEC

HIST 545 British History, 1660-1832 (3). H A study of Britain's recovery from civil war; state formation and national identity; ideological conflict; the Revolution of 1688; religion and secularization; social stability and commercial expansion; reform; threats to the state, and

the American revolution; Britain's survival of the French Revolution; the breakdown of the ancient regime in 1828-32. LEC

HIST 546 History of Cartography (3). H A history of mapmaking worldwide from its origins to the present day. Emphasis on maps as historical records of evolving civilizations and cultural landscapes and methods of study early maps. (Same as GEOG 519.) LEC

HIST 547 The Intellectual History of Europe in the Twentieth Century (3). H This course will examine in depth the leading developments in European thought from the 1920's to the present. Topics will include: existentialism, philosophic hermeneutics, and postmodernism. LEC

HIST 548 British History, 1832 to the Present. (3). H A study of the rise of modern Britain from the 1832 Reform Act, a major step on the path from aristocratic government to mass democratic politics. It covers the politics and society of the Victorian era, the extension of British influence overseas, the origins and social impact of two world wars, the creation of the Welfare State, the loss of Empire, and Britain's entry into Europe. LEC

HIST 549 Social and Economic History of Britain from 1700 (3). H A study of the transformation of Britain from a largely agricultural society to the world's first urban-industrial nation. It covers the origins and social impact of industrialization, the shifting economic fortunes of Britain, industry and Empire, the development of labor and the working-class movement, and British culture and the decline of the industrial spirit. LEC

HIST 550 The British Empire (3). H The development of the British Empire in the areas of white settlement, new African and Asian colonies, and spheres of influence—constitutional, diplomatic, and strategic problems. Special features of the Indian Empire. Transformation from empire to commonwealth. Results of passing of empire. LEC

HIST 551 Spain and its Empire, 1450-1700 (3). H This course will examine the society and culture of Spain in the period known as "the Golden Age." Subjects that will receive attention include: rural and urban society, economic and political organization of the Spanish and American peoples in the early years of the conquest, the place of women in society, the social basis for "Golden Age" culture, and the debate over the "decline of Spain." LEC

HIST 552 Irish Culture (3). H This course explores enduring themes of Irish history, literature, and art from the Iron Age to the present day. Focus may vary with instructor(s). (Same as ENGL 530 and EURS 512.) Prerequisite: Prior completion of the freshman-sophomore English requirement or its equivalent. LEC

HIST 553 Muslims, Christians, and Jews in Medieval Iberia (3). H This course aims to assess the impact of more than seven centuries of Muslim, Christian, Jewish coexistence or convivencia on the Iberian peninsula between 400 and 1609 C.E. The first half of the course focuses on the position of Jews and Christians under both Visigothic and Muslim rule, while in the second half of the semester the focus shifts to the Christian kingdoms, looking at Muslim, Christian, and Jewish relations during the time of the Christian Reconquest. The course will conclude with an analysis of the events leading up to the expulsion of the conversos and moriscos (Jewish and Muslim converts to Christianity) in 1492 and 1609, respectively, and will also consider what these expulsions meant to contemporaries and the degree to which they were motivated by a desire to establish religious uniformity in the peninsula. LEC

HIST 554 Poland from Kings to Communists to Solidarity and After (3). H/W A survey of Polish history, political systems, literature, art, music, theatre, Polish contributions to world civilization, and Poles in America. Films will be shown. LEC

HIST 555 Aspects of British Political Thought (3). H This course will offer an introduction to a number of classic works in British political thought, placed against their historical background. Close reading of selected texts will be combined with contextual analysis. LEC

HIST 556 Aspects of British Political Thought, Honors (3). H Similar in content to HIST 543. This course will offer an introduction to a number of classic works in British political thought, placed against their historical background. Close reading of selected texts will be combined with contextual analysis. Open only to students in the University Honors Program or by permission of the instructor. LEC

HIST 557 Nationalism and Communism in East Central Europe from 1772 to the Present (3). H/W The peoples of East Central Europe under Hapsburg, Romanov, and German rule; the dissolution of the empires, independence and the role of the new states in the European balance of power; World War II, Soviet domination, and the recent role of East Central Europe in the Communist World. LEC

HIST 558 Religion in Britain Since the Reformation: A Survey (3). H This course will deal analytically and synoptically with religion in Britain from the Reformation to the present with special reference to the Church of England, and focuses on the theses of ecclesiology, ecclesiastical polity, and political theology. It is essentially an examination of religious history from a perspective of the history of ideas. (Same as REL 558.) LEC

HIST 559 Religion in Britain Since the Reformation: A Survey, Honors (3). H This course deals analytically and synoptically with religion in Britain from the Reformation to the present with special reference to the Church of England, and focuses on the themes of ecclesiology, ecclesiastical polity, and political theology. It is essentially

an examination of religious history from the perspective of the history of ideas. Open only to students in the University Honors Program or by permission of instructor. (Same as REL 559.) LEC

HIST 562 United States Environmental History in the Twentieth Century (3). H Americans dramatically changed the natural world between 1900 and 2000. This course asks how transformed environments shaped the American experience during a century of technological innovation, democratic renewal, economic expansion, global conflict, and cultural pluralism. Topics include food and markets, energy and transportation, law and politics, protest and resistance, suburbanization, and environmentalism's fate in a global information era. (Same as EVRN 562.) LEC

HIST 563 U.S. Environmental Thought in the Twentieth Century (3). H Explores both leading and dissident ideas that Americans have had about the natural world since 1900. Broad chronological periods are explored in some depth, including the Progressive Era, New Deal, Cold War, the Sixties, and the Reagan Eighties. The course uses articles and books, as well as visual and aural forms of communication. Commercial speech, as well as scholarly and literary works, are considered. (Same as EVRN 563.) Prerequisite: EVRN 148 or HIST 129, or permission of instructor. LEC

HIST 564 Medieval Russia (3). H Political, economic, social, cultural, and religious developments of Russia from the beginnings of the Russian state in the 9th Century through the 17th Century. LEC

HIST 565 Imperial Russia and the Soviet Union (3). H/W The influence of the West and Marxism upon the institutional structure and international position of Russia. LEC

HIST 566 Russia in the Eighteenth Century, 1680-1801 (3). H/W An intensive study of the transformation of medieval Muscovy into the Russian Empire; attention will focus on major economic, social, political, and intellectual trends, emphasizing classroom discussion and reading in sources. LEC

HIST 567 Oil, The Great Powers, and the Persian Gulf, 1900 to the Present (3). H This course begins with the influences in the Persian Gulf at the start of the 20th century (British and Ottoman), and with the emergence of rival powers (French and Russian), as well as with indigenous movements and conditions at the time. The development of the oil industry, which had its beginnings before World War I, will be traced to the present, as will the political, economic, and strategic changes that have occurred. LEC

HIST 568 Russia in the Twentieth Century (3). H/W A course designed to provide an understanding of change and continuity in Russian history and society with an emphasis on the distinctive factors and characteristics of the peoples that led to the rise and fall of the Soviet Union. LEC

HIST 569 The Middle East in the Nineteenth and Twentieth Centuries (3). NW H/W A survey of the development and characteristics of the Middle East since Napoleon. Topics such as the significance of Islam, the impact of the West, and the effects of Russia's movement south are emphasized. In the 20th century the Arab/Israeli problem, the Persian Gulf, oil, and foreign policy interests are stressed. LEC

HIST 570 The Middle East Since World War II (3). NW H/W An intensive study of developments and changes in the Middle East since World War II. Themes developed include the end of British and French ascendancy, fundamental transformation of the structure of Middle Eastern states and politics, oil and the energy crisis, American and Russian policies and interests, old and new problems—e.g., the Straits, Suez Canal, Kurds, the Persian Gulf. (Not closed to those who have taken HIST 569, nor is HIST 569 necessary for HIST 570.) No prerequisite. LEC

HIST 571 The Spanish Borderlands in North America (3). H/W The Northern frontier provinces of the Viceroyalty of New Spain from their exploration and occupation by Spain until their absorption by the United States. LEC

HIST 572 The United States Borderlands: People, Place, Past (3). H The course will serve as a sequel to HIST 571, History of the Spanish Borderlands. It will discuss issues associated with the borderlands region after conquest and acquisition by the United States in 1848. Themes will include race relations, immigration, labor, economics, politics, and the environment. This course will be concerned with how the region was incorporated into the United States, and how this relationship is evolving throughout the twentieth century. It also discusses the notion of a borderlands region and whether or not this is a valid characterization. LEC

HIST 573 Latin America in the Nineteenth Century (3). H/W The course will analyze the social, political, and economic problems of the Latin American nations from their independence to the Mexican Revolution (1910). Emphasis will be on the emergence and shaping of the new countries; their transition to modern industrializing societies; and the impact of this transition on Latin American society. LEC

HIST 574 Slavery in the New World (3). H/W Slavery, slave culture, and the slave trade in the U.S., Latin America, and the Caribbean will be examined comparatively. Attention will also be given to African cultures, the effects of the slave trade on Africa, and the effects of African cultures on institutions in the New World. (Same as AAAS 574.) LEC

HIST 575 History of Mexico (3). H/W Mexican history from pre-conquest days to the contemporary period. LEC

HIST 576 History of Central America (3). H/W Study of internal development of Central American republics but with regional approach and consideration of Indian civilizations and colonial institutions as background. Prerequisite: HIST 120, HIST 121, or HIST 370. LEC

HIST 577 History of the Caribbean (3). H/W The focus of this course is on the history of the major islands of the Caribbean (Cuba, Puerto Rico, Jamaica, Hispaniola, and Barbados) in the 19th and 20th centuries. Topics include emergence of new independent states, international relations, foreign capital, revolution, dictatorship, and democracy. Emphasis is given to comparative economic and political systems. LEC

HIST 578 Social History of South America (3). H/W The course treats the long-term effort of the South American nations to become urban industrial societies through economic development, emergence of modern pressure groups, improvement of human capital, and the fostering of a sense of national purpose and unity expressed in the participation of the whole population in all of the activities and benefits of life in society. LEC

HIST 579 The History of Brazil (3). H/W The history of Brazil from European discovery to the present with emphasis on social and economic change. Topics discussed will include the Indian, African, and European backgrounds, slave society, the frontier in Brazilian development, cycles of economic growth and regionalism, the role of foreign capital, industrial development, labor, urban problems, the military in government, and human rights. LEC

HIST 580 Economic History of Latin America (3). H/W A study of the changing economic conditions in Latin America from Colonial times through the Twentieth Century and the effect of these conditions on Latin American society. Emphasis will be on the major theoretical issues of development economics, patterns of growth, and suggested strategies for economic development. Analysis will center on changes in agriculture, industry, labor, finance, transportation and technology, urbanization, immigration, role of women, export and commerce, and foreign involvement. LEC

HIST 581 Topics in Third-World History: _____ (3). H Varying themes which explore issues relating to pre-modern modes of production, kinship structures, wealth and socio-political systems in agrarian societies, indigenous cultures, race, poverty, colonialism, transitions from traditional to modern social and political structures, underdevelopment, national identity, environmental decay, class conflict, women and health. The concept of the "third world" is discussed in its historical context and evaluated in its analytical usefulness for comparing the experiences of people across vast regions of the world. LEC

HIST 583 Imperial China (3). NW H/W An intensive survey of China's traditional civilization and its history, with emphasis on the last centuries of imperial rule under the Sung, Yuan, Ming, and Ch'ing dynasties (to 1850). (Same as EALC 583.) LEC

HIST 584 Modern China (3). NW H/W An intensive survey of China's history from the early 19th century to the present. Key topics include the decline of the traditional system, the rise of communism, the Maoist era, and the tensions of change and control in the 1980s and 1990s. (Same as EALC 584.) LEC

HIST 585 Reform in Contemporary China (3). NW H/W This course will examine the epochal changes that have occurred in China from Deng Xiaoping's rise to power in 1978 to present. It will include a focus on the historical background of the revolutionary period before examining the political and economic changes that spanned the 1989 "prodemocracy" movement at Tiananmen. The course will conclude with an analysis of the events of the 1990s focusing on U.S. China political and economic relations and the destabilizing effects of inflation, infrastructural reform, political and economic decentralization, and leadership succession. A previous course on China is helpful, but not mandatory. (Same as EALC 585 and POLS 668.) LEC

HIST 586 Ancient and Medieval Japan (3). NW H/W This course offers an overview of the political narrative and an introduction to the major cultural, religious, and social trends from the prehistoric era up through the Warring states period (sixteenth century). Specific topics addressed include the history of women, popular belief, pariah groups, and performing arts. (Same as EALC 586.) LEC

HIST 587 Early Modern Japan (3). NW H/W Early modern Japan (16th to 19th century) examines the history, culture, and patterns of life during an era of rigid social control but artistic brilliance. After an historical overview of the period, students will explore topics including the social structure, travel, religion, thought, and the formation of traditional cultural forms such as Kabuki theatre. (Same as EALC 587.) LEC

HIST 588 Japan, 1853-1945 (3). NW H/W This course provides an intensive survey of Japanese history from the arrival of Commodore Perry through the Pacific War. Social, economic, and political themes will be emphasized. Among the topics covered will be the Meiji Restoration, industrialization, Japanese imperialism, Taisho democracy, and wartime mobilization. (Same as EALC 588.) LEC

HIST 589 Japan Since 1945 (3). NW H/W This course provides an overview of Japanese history from the end of World War II to the present day. Among the topics covered will be the Allied Occupation, post-war politics and social change, the economic "miracle," popular cul-

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A list of courses offered through Independent Study appears in the Other Programs chapter of this catalog.

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ture, women and the family, crime and punishment, the educational system, and Japan's place in the world. (Same as EALC 589.) LEC

HIST 590 Cultural History of Korea (3). H This course examines the cultural history of Korea in periods prior to the 19th Century. Special attention is given to varying constructions of cultural value, heritage, and identity, together with the historically specific factors that engendered them. (Same as EALC 563.) LEC

HIST 591 Food in History: West and East (3). H/W A survey of scholarship on food in the West and in East Asia, choosing works primarily by historians, but also by sociologists, geographers, and anthropologists. We consider how scholars have approached issues concerning food productions and consumption, what habits of eating reveal about daily life, and how and when food is embedded with historiography related to these topics, keeping in mind the famous maxim of the noted French gastronome Brillat-Savarin (d. 1826): "Tell me what you eat: I will tell you what you are." LEC

HIST 592 Huns, Turks, and Mongols: The Nomad Factor in History (3). NW H/W A survey of the history and the institutions of the Eurasian steppes, and an examination of the varying impact of the steppe tribes upon the civilizations of China, India, Persia, Islam, and the West. (Same as EALC 592.) LEC

HIST 593 Modern Korea (3). NW H/W This course will examine selected topics in Modern Korean history in the 19th and 20th centuries, with special emphasis on Korea's connections to China and Japan. (Same as EALC 593.) Prerequisite: A college-level course in East Asian history or culture, or consent of instructor. LEC

HIST 594 Law and Society in Traditional China (3). S/W The course begins with a series of lectures on the main principles underlying Chinese social structure. The course then examines the application of those principles in legal cases. Students read legal cases in translation and argue them in class. (Same as EALC 594.) Prerequisite: A course in Chinese history. LEC

HIST 595 Business and Industry in Japan (3). NW H/W An introduction to the economic and business history of Japan from the 19th century to the present day. Topics discussed will include the evolution of industrial policy, labor relations, production management practices, trade frictions with the United States, and the applicability of the Japanese model to other economies today. (Same as EALC 595.) LEC

HIST 596 Defining Japan: Marginalized Groups and the Construction of National Identity (3). NW H/W This course investigates the construction of national identity in modern Japan by examining the historical experiences of groups marginalized by mainstream society. We will explore the pressures of conformity, the pervasiveness of social ostracism and the surprising diversity in Japanese society. Among the groups discussed will be indigenous peoples (the Ainu, Okinawans), the Korean minority, the outcast class (burakumin), the sick and disabled, the yakuza, and political activists. (Same as EALC 596.) LEC

HIST 597 Japanese Theatre History (3). NW H/W This course examines the historical development and characteristics of Japanese theatre, with special attention to traditional theatre and the genres of noh, kyogen, and kabuki in particular, tracing their origins in the pre-modern era and their continued performance today. To gain an understanding of the historical and artistic setting of these arts, lectures and readings will consider broader issues such as performance and ritual in religion and daily life, gender and representation, and folk theatre. A portion of this class will include practical studies of theatrical forms including noh dance and kabuki music (shamisen). (Same as EALC 597.) LEC

HIST 598 Sexuality and Gender in African History (3). NW H An examination of the history of sexuality and gender in Africa with a focus on the 19th and 20th centuries. Major issues and methods in the historical scholarship on gender and sexuality will be covered. Topics of historical analysis include life histories, rites of passage, courtship, marriage, reproduction, education, masculinities, homosexuality, colonial control, and changing gender relations. Prior course work in African history is suggested. Graduate students will complete an additional project in consultation with the instructor. (Same as AAAS 598.) LEC

HIST 599 The Rise and Fall of Apartheid (3). H This course will deal with the last fifty years of South African history during which apartheid came to be formulated, supported, and perpetuated, and the forces that were responsible for its disintegration by 1990. Reference will also be made to the transformation process since April 1994. (Same as AAAS 590.) LEC

HIST 600 West African History (3). NW H/W A study of the political, social, and economic development of West Africa until the colonial era. Major focus will be on the role of state formation, trade, ecology, and urbanization in the formation of centralized politics from the 11th to the 16th centuries and the impact of the process of Islamization and Muslim revolution on political and socioeconomic change in selected West African societies in the 19th century. LEC

HIST 601 Oral History (3). H This course explores the emergence of oral history as a methodology and focuses on the guidelines and ways to effectively use oral history in historical, journalistic, and social science research. The skills of collecting and sorting information gathered through eyewitness accounts, oral traditions, genealogies,

investigative reporting procedures, and questionnaires are developed. The nature of the interview in relation to personal and public documents, ordinary conversation, and other related data sources will be considered in this course. LEC

HIST 602 Religion in Britain, 1785-1925 (3). H This course offers an examination of religious thought and practice during the transition from a pre-industrial, unitary order to a modern urban, industrial, and secular society. It will stress the close study of a range of selected texts, including works by such authors and works as Paley, Horsley, Wilberforce, Thomas Arnold, Newman Maurice, essays and reviews, Jowett, Lux Mundi, Gore, and Temple. It will attend to continental European influences on British thought and set theological debate in the wider context of the intellectual history of the period. LEC

HIST 603 History of Tibet (3). NW H This course surveys the cultural and political history of Tibet from the eighth to the twentieth century. Through readings, lectures, and discussions, students gain familiarity with the dominant features of Tibetan civilization. Topics include the relationship between Tibet and the civilizations of India and China, Tibetan Buddhism, and the tensions between the struggle for Tibetan independence versus claims of Chinese sovereignty. The course also considers the Tibetan diaspora and the reception of knowledge about Tibetan civilization in the West. LEC

HIST 604 Contemporary Greater China (3). NW H This course considers contemporary China, Taiwan, and Hong Kong in comparative perspective. It begins in the early twentieth century so as to set up a comparison between Nationalist, Communist and Colonial China. It focuses on the evolution from the 1940s to the present studying the political, economic and social systems of the three regions that constitute what we now call 'Greater China' and considers, in particular, important points of difference and similarity between them. LEC

HIST 606 Childhood and Youth in America (3). H An exploration of changing attitudes in the United States toward children and youth, their subjective experience, their impact on adults, and the conditions that shaped their development. LEC

HIST 607 The Family in History: Comparative Perspectives (3). H The relationship between the family, in its political, economic and social dimensions, and the larger politico-economic context will be examined from a historical and comparative perspective. Points of special attention will include: a) the decline of the household as unit and focus of production, and the effect of this change upon the position of women and b) the family as a point of organization of political and economic power, systems of inheritance, and the family in the polis. Illustrative materials will be drawn from Europe, Africa, Japan, Latin America, and the United States, ranging from ancient to modern times. LEC

HIST 608 History of Sexuality (3). H This survey course traces the changing conceptions of human sexuality from early civilizations to the present. It will include, but not be limited to, such topics as attitudes and beliefs, laws, sciences and medicine, cultural differences, and the impact of economic change on sexual definition and experience. LEC

HIST 609 History of Women and Reform in the United States (3). H This survey course will outline the history of women's involvement in reform movements in the United States from 1600 to the present. It will include, but not be limited to, such topics as labor movements, utopian communities, religious revivals, moral reform, women's rights, civil rights. LEC

HIST 610 American Colonial History (3). H Examines colonial American history from the age of Columbus to the mid-1760s. The course seeks to place colonial American history into the larger historical context, particularly the expansion of the British Empire in the early modern period. Emphasis in the course will be on migration, social and economic conditions, and inter-racial relations. LEC

HIST 611 Early American Indian History (3). H This course will focus on the history of American Indians, especially those of the eastern woodlands, from precontact times to the 1830's. Particular emphasis will be on the response of Indians to demographic catastrophe, the development of trade between Indians and colonists, and Indian responses to European colonization in British America and New France. The role of Indians in the American Revolution and the changes caused by Removal will also be treated. LEC

HIST 612 History of Federal Indian Law and Policy (3). H This course offers a comprehensive examination of federal legislation and court decisions in the United States that have affected American Indians. The history of law and policy will be traced from the colonial period, but the major emphasis will be on the struggle of American Indians to preserve sovereignty in the 19th and 20th centuries. LEC

HIST 613 Slavery and Freedom in the Age of Jackson (3). H This course focuses on the growing importance of the issues of slavery and freedom in the United States between 1815-1848. Recently, scholars have demonstrated that the period was one of disorienting, dramatic, and unprecedented change as politics, economics, racial and gender roles, and key institutions were permanently transformed. The course will examine these changes and how they, in turn, remade the values and identities of all Americans. LEC

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HIST 615 Modern America, 1920-1945 (3). H A history of the United States from the end of World War I through the years of World War II. LEC

HIST 616 Contemporary America, 1941-Present (3). H A history of the United States from its entry into World War II to the present. A study of such selected topics as women's history and feminism, race relations and the Afro-American civil rights movement, power, poverty, the military-industrial complex, McCarthyism, and presidential administrations. LEC

HIST 617 America in the 1960s (3). H The people of the United States experienced significant social, political, and cultural change during the 1960's. This course studies the history of these changes, focusing on the American people, the institutions that shaped their lives, and the social and political movements, for and against change, that surfaced during this decade. Specific topics include: the struggle for racial equality, the Kennedy, Johnson, and Nixon administrations; the Vietnam War, the antiwar movement, New Left, and counterculture; feminism's rebirth; the white backlash; and the resurgence of political and cultural conservatism. Course requirements include readings, discussion, and original historical research and writing. LEC

HIST 618 History of the American West to 1900 (3). H A survey of Western history with emphasis on such topics as Native Americans and Indian-white relations, environment and resource use, exploration and discovery, expansionism and Manifest Destiny, economic development, urban, rural, and alternative communities, ethnic and racial experience, women and violence. Consideration will also be given to topics such as fur trade, mining, the cattle business, and agriculture. LEC

HIST 619 History of the American Indian (3). NW H/W A study of Indians in the United States from colonial times to the present. Consideration will be given to the political, social, and cultural history of selected Indian tribes and to Indian-white relations with particular attention to the Indian point of view. Other topics will include a comparative study of Indian policy of nations colonizing in America, cultural intermingling and cultural conflict, and current Indian problems. Slides, films, and guest speakers (including American Indians) will be used in the course. LEC

HIST 620 History of Kansas (3). H A survey of the history of culture and society from prehistory to the present. Topics include Native American life, Euro-American resettlement, Bleeding Kansas and the Civil War, agricultural settlement, urbanization and industrialization, depression and recovery, and modern Kansas in transition. LEC

HIST 621 The American West in the Twentieth Century (3). A study of the post-frontier era and the struggle to create a regional identity, drawn from legends of the heroic past, varieties of racial and ethnic experience, political culture, and the possibilities of the land. LEC

HIST 622 History of the Plains Indians (3). NW H/W A history of the Plains Indians from the sixteenth century to the present. Consideration will be given to tribal culture and society, to the impact of the fur trade and international rivalries on tribes, and to Indian-white relations. LEC

HIST 627 Growing Up in America (3). H An examination of the process by which people in the United States have acquired their identities, learned the way of their society so they could function within it, and have transmitted their culture from generation to generation. LEC

HIST 628 American Economic Development (3). H An introductory study of the development of the American economy from colonial times to the present. Investigates long-term trends in output, population, and output per capita, as well as short period fluctuations, and the variables and institutions that determined these fluctuations and trends. (Same as ECON 530.) Prerequisite: ECON 104 or ECON 142 and ECON 144. LEC

HIST 629 United States Diplomatic History I (3). H The origins of American diplomacy from the wars of the 18th century and the Revolution to 1901. The foreign relations of the American government and the reactions of the American people to international problems. LEC

HIST 630 United States Diplomatic History II (3). H An examination of the history of United States foreign relations over the course of the twentieth century. Treats America's emergence as a world power before World War I, imperialism and interventionism, involvement in World War I and World War II, internationalism, the Cold War and America's anti-communist crusade, third world nationalism, responses to a global economy, and the obligations of a military superpower in a chaotic world. LEC

HIST 631 The Contemporary Afro-American Experience (3). H A history of Afro-America from the end of the Civil War to the present. Consideration will be given to such topics as America's capitulation to racism, blacks in agriculture, blacks and the labor movement, Booker T. Washington and W.E.B. DuBois, civil rights protest, migration and urbanization, Marcus Garvey and black nationalism, the Harlem Renaissance, blacks during the New Deal, blacks in recent politics, the modern civil rights movement, ghetto uprisings, and the changing relationships among race, caste, and class. LEC

HIST 634 The Scientific Revolution in the 16th and 17th Centuries (3). H This course investigates the origins of modern European science. Various topics in the physical and biological sciences will be treated, including the works of Galileo, Harvey, Newton, Descartes, Boyle, Malpighi, et al. Scientific societies and technological developments will also be treated as will the relationship of science, society,

religion, and other intellectual currents. Recommended: A survey in the history of science (HIST 284) or equivalent. LEC

HIST 636 Agriculture in World History (3). H A survey of the development of agriculture from prehistory through the present. The major themes of the course will be how various methods of farming have spread around the world, how new techniques have transformed agriculture, and how peasants and farmers have interacted with cities and governments. LEC

HIST 639 Modern Revolution in Biology and Medicine, Harvey to the Present (3). H The development of modern biology, from about 1600 to the present; topics discussed include natural history, anatomy and physiology, cell theory, evolutionary biology, genetics, bacteriology, scientific institutions, technological developments, transplants, bionics, cloning, genetic engineering, vaccination, iatrogenic disease, and fluoridation. LEC

HIST 640 Entrepreneurship in East Asia (3). NW H An intensive examination of the history and current status of entrepreneurship in China, Japan, and other nations in East Asia. This course investigates the role of entrepreneurs in Asian economic development from the nineteenth century to the present, as well as the relation between entrepreneurship and Asian cultural traditions. The opportunities and challenges of entrepreneurship in East Asia today are also considered. (Same as EALC 520.) LEC

HIST 646 Witches in European History and Historiography (3). H This course examines witches, witchcraft, and magic in Europe in the late medieval and early modern period (approximately 1200-1700 C.E.). Particular emphasis will be on the variety of historical and anthropological approaches that have been used to study the subject and their meaning in the context of gender politics and gender theory. (Same as WS 646.) LEC

HIST 649 History of Feminist Theory (3). H This discussion course will cover the development of feminist theories from the late Middle Ages to the present. Reading will include Pisan, Wollstonecraft, Mill, Freud, Woolf, Beauvoir, Friedan, Daly, Kristeva, and others. (Same as WS 549.) LEC

HIST 651 History of American Business (3). H A survey of the history of United States business, with emphasis upon the post-Civil War period, that explores the changes to American business brought about by modernizing processes. Topics will include structural and institutional changes, technological and marketing innovations, and relations with workers, with government at its various levels, and with the public. LEC

HIST 653 American Constitutional History to 1887 (3). H A historical study of the colonial origins, revolutionary development, creation of, struggle over and preservation of the American constitutional system from 1763 to 1887. LEC

HIST 654 American Constitutional History Since 1887 (3). H A historical study of the evolution of thought and practice of the constitutional system from the conflict over government regulation of business, through the expansion of executive and legislative power, to the evolution of protections of Bill of Rights guarantees by the Supreme Court and the reaction against that evolution. LEC

HIST 660 Biography of a City: _____ (3). H These interdisciplinary, team-taught courses survey the artistic, intellectual, and historical development of the great cities of the world. London, Paris, and Rome have been offered in recent semesters, and other cities will be studied in the future. LEC

HIST 661 Palestine and Antiquity (3). H A survey of the history of Palestine from biblical origins to the Muslim conquest, with emphasis on such topics as social and religious institutions, cultural and communal diversity, and relations between foreign powers and local authorities. The course further explores the roots of the present conflictual situation in this part of the Middle East. LEC

HIST 666 Contemporary America, 1941-Present, Honors (3). H A survey of the economic, social, political, and cultural history of the United States from its entry into World War II to the present. Students with credit in HIST 614 or HIST 616 should not enroll in HIST 666. LEC

HIST 696 Seminar in: _____ (3). H A seminar designed to introduce students to the theory and practice of historical inquiry. A research paper will be required. Prerequisite: Twelve hours of upper-class courses in history and completion of HIST 396 or consent of instructor. LEC

HIST 699 Philosophy of History (3). H Topics will include: The nature of historical knowledge; the problems of historical inquiry; a critique of philosophies of history; and a study of history and related disciplines. (Same as PHIL 696.) Prerequisite: A distribution course in philosophy. LEC

HIST 705 Globalization in History (3).

HIST 719 Colloquium in Medieval Latin (3).

HIST 720 The Nature of Museums (3).

HIST 721 Introduction to Museum Public Education (3).

HIST 722 Conservation Principles and Practices (3).

HIST 723 Introduction to Museum Exhibits (3).

HIST 725 Principles and Practices of Museum Collection Management (3).

HIST 727 Practical Archival Principles (3).

HIST 728 Museum Management (3).

HIST 747 Teaching About East Asia (2).

HIST 799 Museum Studies Apprenticeship (1-6).

History of Art

Chair: Linda Stone-Ferrier, arthist@ku.edu
 Spencer Museum of Art, 1301 Mississippi St., Room 209
 Lawrence, KS 66045-7500
 (785) 864-4713, fax: (785) 864-5091
www.ku.edu/~kuarthis

Degrees offered: B.A., B.G.S., B.F.A., M.A., Ph.D.

The curriculum introduces the student to the visual arts of the past and the present. Courses cover the arts of ancient and medieval Europe, modern Europe, the United States, Latin America, Africa, and East Asia, including China, Japan, Korea, and the art of Buddhism. Courses also are offered in the history of photography, prints, and drawings.

Several introductory courses, that is, courses with no prerequisites, are offered every semester. These include one- and two-semester surveys in Western art (HA 100, HA 300, HA 150, and HA 151), HA 261 Introduction to Modern Art, HA 265 Introduction to Asian Art, HA 266 The Visual Arts of East Asia, HA 267 Art and Culture of Japan, HA 268 Art and Culture of China, and HA 269 Art and Culture of Korea.

Courses for Nonmajors

All courses are open to nonmajors if they have the necessary prerequisite, which in most cases is one of the introductory courses. An undergraduate adviser counsels nonmajors who need help selecting a course.

Majors

Bachelor's degrees with majors in the history of art are offered in the College of Liberal Arts and Sciences (B.A. and B.G.S.) and in the School of Fine Arts (B.F.A.). See the School of Fine Arts chapter of this catalog for B.F.A. requirements.

First- and Second-year Preparation. First- and second-year students should enroll in the two-semester survey course, HA 150–HA 151. As soon as the student decides that art history is a possible major, he or she should talk to an undergraduate adviser. A double major combining art history with another subject, such as a foreign language or history, is possible. Students who intend to enter the School of Business should note that a concentration in art history is possible.

Requirements for the B.A. or B.G.S. Major. Students must complete 30 hours of art history or 27 hours in art history and 3 hours in studio art or aesthetics. At least one course (3 hours) at or above the 200 level must be completed in each of these five categories:

(1) ancient or medieval art; (2) Renaissance or Baroque art; (3) modern art, which includes 19th- and 20th-century art, American art, and history of photography; (4) East Asian; (5) non-Western (East Asian or African). In other words, students must take 15 hours in these five categories with the remaining 12 to 15 hours of art history as electives.

Note: HA 150 and HA 151 do not fulfill these distribution requirements but do count toward the total 30 required hours in art history.

Note: HA 100/HA 300 is a one-semester survey of European and American art history; the same material is offered over two semesters in HA 150 and HA 151. Therefore, students with credit in the one-semester survey should not enroll in the two-semester survey, and vice versa.

Requirements for the Minor. Students may earn a minor by completing 18 hours of art history, 12 of which are junior/senior-level courses, with a grade-point average of 2.0 in the minor.

Honors. The department invites art history majors to apply for graduation with departmental honors. They must meet the following criteria:

1. An overall grade-point average of at least 3.25 and an art history grade-point average of 3.5.
2. Declared intention of seeking honors at the time of enrollment for the first semester of the senior year.
3. Enrollment in HA 498 Honors Essay in Art History. A professor must agree to supervise the student's honors essay before enrollment is accepted.
4. Successful completion of assigned scholarly effort culminating in a paper. Scholarly projects may take several forms and are not limited to course or seminar enrollment. Projects associated with the Spencer Museum of Art or the Art and Architecture library are appropriate. The written paper must be finished at least 45 days before graduation.
5. Final approval of the written paper by a faculty committee that submits the paper to the entire faculty for endorsement.

● History of Art Courses

HA 100 Introduction to Art History (3). HT H An introduction to art and architecture in Western culture. Basic principles and problems of the visual arts are analyzed, as are the major historical trends and periods. Style, content, and cultural backgrounds are discussed and illustrated by slides and original material in the Spencer Museum of Art. Not open to students with credit in HA 150, HA 151, HA 160, HA 161, or HA 300. LEC

HA 103 Introduction to Art History, Honors (3). HT H An introduction to art and architecture in Western culture. Basic principles and problems of the visual arts are analyzed as are the major historical trends and periods. Style, content, and cultural backgrounds are discussed and illustrated by slides and original material in the Spencer Museum of Art. Not open to students with credit in HA 150, HA 151, HA 160, HA 161, or HA 300. Prerequisite: Membership in the University Honors Program. LEC

HA 105 Special Study: _____ (1-6). H This course is designed for the study of special topics in art history at the introductory level, including courses taken in the study abroad program. May deal with individual artists, special themes, or other topics not generally covered in courses offered by the department. May be repeated for credit if content varies. LEC

HA 150 Art History I: Ancient Through Medieval Art (3). HT H A survey of the art of earlier periods in the West, from prehistoric times through the middle ages in Europe, with special emphasis on the relationship between artistic developments and cultural changes. Not open to students with credit in HA 100, HA 103, HA 160, or HA 300. This course does not fulfill the ancient-medieval requirement for majors. LEC

HA 151 Art History II: Renaissance to Contemporary Art (3). H A survey of the art of later periods in the West, from the Renaissance to the contemporary period in Europe and America, with special emphasis on the achievements of individual artists in relation to the cultural movements of their times. Not open to students with credit in HA 100, HA 103, HA 161, or HA 300. This course does not fulfill the Renaissance/modern requirement for majors. Prerequisite: HA 150 or HA 160. LEC

HA 160 Art History I, Honors (3). HT H Honors section of HA 150. Students taking HA 150 for Honors credit must enroll in HA 160. They will attend HA 150 lectures and Honors discussion group led by the professor in charge of the course. LEC

HA 161 Art History II, Honors (3). H Honors section of HA 151. Students taking HA 151 for Honors credit must enroll in HA 161. They will attend HA 151 lectures and Honors discussion group led by the professor in charge of the course. Prerequisite: HA 150 or HA 160. LEC

HA 261 Introduction to Modern Art (3). HT H A general survey of painting, sculpture, architecture, and graphic art of the 19th and 20th centuries. Emphasis is placed on major movements and their artists, including Neo-Classicism, Romanticism, Realism, Impressionism, Post-Impressionism, Fauvism, Expressionism, Cubism, Surrealism, Abstract Art, Pop Art, and the developments of the contemporary period. LEC

HA 265 Introduction to Asian Art (3). HT, NW H/W An introduction to Asian art and architecture through a study of the principal monuments, their aesthetic principles, and their relation to philosophies and religions. LEC

HA 266 The Visual Arts of East Asia (3). NW H An introduction to the visual arts of China, Korea, and Japan, with equal time given to each country. Emphasis will be placed on cultural context, including religion, social class and gender, and on the cultural interaction between the three countries. LEC

HA 267 Art and Culture of Japan (3). NW H/W An introduction to the arts of Japan in historical and cultural context. Visual arts will be stressed. No prerequisite. LEC

HA 268 Art and Culture of China (3). NW H/W An introduction to the arts of China in historical and cultural context. Visual arts will be stressed. No prerequisite. LEC

HA 269 Art and Culture of Korea (3). NW H/W An introduction to the arts of Korea in historical and cultural context. Visual arts will be stressed. LEC

HA 300 Introduction to Art History (3). H An introduction to art and architecture in Western culture. Basic principles and problems of the visual

arts are analyzed, as are the major historical trends and periods. Style, content, and cultural backgrounds are discussed and illustrated by slides and original material in the Spencer Museum of Art. Not open to students with credit in HA 100, HA 150, HA 151, HA 160, or HA 161. LEC

HA 305 Special Study: _____ (1-6). H This course is designed for the study of special topics in art history, including courses taken in the study abroad program. May deal with individual artists, special themes, or other topics not generally covered in courses offered by the department. May be repeated for credit if content varies. LEC

HA 307 Directed Readings (1-6). U Supervised study and research into special fields of art of particular interest to the student. Weekly consultation and reports. LEC

HA 315 The Prehistory of Art (3). S A study of art forms, paintings, engravings, and sculptures attributed to prehistoric people around the world; consideration of the environmental and cultural contexts from which these art forms were created; a review of current interpretations. (Same as ANTH 315.) LEC

HA 330 Italian Renaissance Art (3). H A survey of the art and architecture of Italy from c. 1300 to 1550. Special emphasis is placed on regional styles and the private, political, and devotional contexts in which works of art and architecture functioned. Some of the artists whose works are considered are Giotto, Duccio, Donatello, Botticelli, Leonardo, and Michelangelo. LEC

HA 369 Introduction to Korean Painting (3). NW H A history of Korean painting from the 4th through the 19th centuries. An examination of tomb murals, Buddhist painting, landscape, genre painting, portraiture, documentary painting, and decorative symbolic imagery. Lectures and discussion focus on artistic style and cultural context. Completion of HA 266, HA 269 or ECIV 104 is recommended. LEC

HA 370 American Art (3). H A survey of American painting, sculpture, and architecture from colonial to recent times. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 376 West African Art (3). NW H/W Introduction to the rich visual art traditions of West Africa. Emphasis is given to the major art-producing cultures of the Western Sudan and the Guinea Coast, including the prehistoric cultures of Nigeria, Mali, and Ghana. The diverse forms of figure sculptures and masquerade performance and meanings of these arts in historical and cultural contexts are examined. (Same as AAAS 376.) LEC

HA 380 History of Photography (3). H An introduction to the history of photography as a means of artistic expression and visual communication. Special attention is placed on the relation between developments in photography and the artistic and cultural context of the time. LEC

HA 467 Art and Culture of Japan, Honors (3). NW H/W Honors version of HA 267, requiring additional readings and writing assignments. An introduction to the arts of Japan in historical and cultural context. Basic principles and problems of the visual arts are analyzed, as are the major historical trends and periods. Prerequisite: Membership in the University Honors Program or permission of the instructor. Not open to freshmen or students with credit in HA 267. LEC

HA 468 Art and Culture of China, Honors (3). NW H/W Honors version of HA 268, requiring additional readings and writing assignments. An introduction to the arts of China in historical and cultural context. Basic principles and problems of the visual arts are analyzed, as are the major historical trends and periods. Prerequisite: Membership in the University Honors Program or permission of the instructor. Not open to freshmen or students with credit in HA 268. LEC

HA 469 Art and Culture of Korea, Honors (3). NW H/W Honors version of HA 269, requiring additional readings and writing assignments. An introduction to the arts of Korea in historical and cultural context. Basic principles and problems of the visual arts are analyzed, as are the major historical trends and periods. Prerequisite: Membership in the University Honors Program or permission of the instructor. Not open to freshmen or students with credit in HA 269. LEC

HA 482 Japanese Painting (3). H A survey covering the development of Japanese painting from the Kofun period down to the early twentieth century. Topics will include Buddhist and other religious paintings, narrative handscrolls, suibokuga, decorative screens, genre paintings and ukiyo-e prints, and western-style paintings of the Meiji and Taisho periods. Work requirements will be greater for students enrolled at the 700 level than at the 400 level. Prerequisite: HA 265, or HA 267, or consent of instructor. LEC

HA 488 Chinese Painting, Honors (3). NW H/W A survey of the development of painting in China, beginning with the earliest forms of figural and landscape depiction. Emphasis will be placed on the major painting traditions of the Song, Yuan, Ming, and Qing Dynasties. Prerequisite: One of the following four courses: HA 150, HA 265, HA 266, or ECIV 104; and membership in the University Honors Program or permission of the instructor. LEC

HA 498 Honors Essay in Art History (3). H Required for departmental honors. A course of directed research and the preparation of a paper on an art history topic, supervised by a professor. Prerequisite: A grade-point average of 3.5 in art history and 3.25 in all courses, and consent of a major adviser and supervising professor. IND

HA 500 Prints and Printmakers (3). H The major historical achievements in the field of printmaking, the artists who produced prints,

and the impact of their work on the visual arts. Lectures supplemented by work with original material. Prerequisite: An introductory course in Western art history at the college level and three further hours of history of art or consent of instructor. LEC

HA 501 Modern Prints and Drawings (3). H A study of prints and drawings by major artists of the 19th and 20th centuries with special emphasis on works in the collection of the Spencer Museum of Art. Prerequisite: An introductory course in Western art history at the college level or of modern art, or consent of instructor. LEC

HA 502 Medieval Art (3). H The religious and secular art of the Middle Ages from the Early Christian era to the end of the Late Gothic period in the 15th century. Prerequisite: An introductory course in Western art history at the college level. LEC

HA 503 Japanese Prints (3). H A study of the major artists and schools of the Japanese print, especially in their technical and stylistic developments and in their relation to the culture of Japan in the Edo period. Prerequisite: A survey of Asian or Japanese art, or consent of instructor. LEC

HA 504 Spanish Art (3). H The evolution of Spanish art in its social and historical context. Emphasis on major artists (el Greco, Velazquez, Goya, and Picasso) and monuments (Santiago de Compostela, the Escorial, and Gaudi's Parque Guell). A consideration of the impact of Hispanic art on the art of the Western hemisphere. Prerequisite: An introductory course in Western art at the college level or consent of instructor. LEC

HA 505 Special Study: _____ (3). H This course is designed for the study of special topics in art history on a trial or one-time basis, open to both undergraduate and graduate students. LEC

HA 511 The Celts (3). H A multidisciplinary study of over 2000 years of early European History (1200 BC-800 AD) combining the approach of archaeology and anthropology, art history, and linguistics. Emphasis will be on the most important aspects of the growth and development of the arts, cultures, and languages of these Pan-European Peoples from their west-central European origins to their maximum expansion and their confrontation with Rome, The Anglo-Saxons, and the Franks. The survival of Celtic culture in the "Celtic fringe" of Western Europe and the "Celtic Revival" in the 19th and 20th centuries will be considered at the end of the semester. (Same as ANTH 511.) LEC

HA 515 Latin American Art, 1492-1992 (3). H A consideration of major moments of Latin American art from the colonial period to the recent past. Particular focus on Mestizo Baroque styles, Mexican Muralism, the reception of early modern art in the 1920s, and contemporary art. The issues to be discussed include regional vs. metropolitan styles, Mestizo styles as a reflection of mestizo identity, and the canonical status (or lack thereof) of Latin American art. LEC

HA 516 Latin American Modern Art (3). H Consideration of the development of modern art in Latin America from 1900 to the present. The course focuses on Latin American avant-garde movements as distinct and often oppositional variations on European movements, and considers the problem of the canonical status of Latin American modern art. LEC

HA 517 Latin American Graphic Arts and Politics (3). H Study of the relationship between politics and social realist movements in printmaking in modern Latin America. The course will focus most closely on Mexico, Cuba, Puerto Rico, Colombia, and Argentina, and Latino/a artists in the United States. LEC

HA 525 Aegean Archaeology and Art (3). H/W An interdisciplinary survey of the major cultures of the prehistoric Aegean (Greek) world from the Neolithic period to the end of the Bronze Age (ca. 3000-1100 B.C.E.), with special emphasis on the cultural and artistic achievements of the Mycenaean, Minoan, and Cycladic islanders, including their contacts with the neighboring cultures of Anatolia (Hittites and Troy), the Levant, Egypt, and South Italy. Includes lecture with slides and discussion. For advanced undergraduates with backgrounds in the humanities and for graduate students (especially in Classics and History of Art). No knowledge of Greek or Latin is required. (Same as CLSX 525.) LEC

HA 526 Greek Archaeology and Art (3). H An interdisciplinary survey of the material culture of the ancient Greek world from the Protogeometric period to the end of the Hellenistic age (ca. 1100 - 30 B.C.E.), with an emphasis on the major sites, monuments, and changing forms of social and artistic expression (architecture, sculpture, vase painting, and other arts). Includes lectures with slides and discussion; use of the Wilcox Museum of Classical Antiquities. No knowledge of Greek or Latin is required. For advanced undergraduates and graduate students with backgrounds in the humanities; and for graduate students (especially those in History of Art and Classics). (Same as CLSX 526.) LEC

HA 527 Late Medieval Art in Italy (3). H This course examines the history of paintings, sculptures and buildings produced in Italy from c. 1250 to 1400. Important individual works, artists, and decorative complexes, such as Giotto's Scrovegni (Arena) Chapel, are analyzed in terms of their stylistic, geographical, social, historical, devotional, and literary contexts. Current theories and controversies pertinent to the history and study of 13th- and 14th-century Italian art are also addressed. Prerequisite: HA 100, HA 150, or the equivalent, or consent of instructor. LEC

HA 528 Archaeology and Art of Greece and Rome (3). H/W A one semester cross-cultural survey of the cultures of Greece and Rome in their broader Mediterranean context, from ca. 1000 B.C.E. - 500

Spencer Museum of Art is the only comprehensive collection in the state of Kansas. Admission is free.

Gallery hours: Tues., Wed., Fri., Sat.: open from 10 a.m. to 5 p.m.

Thurs.: from 10 a.m. to 9 p.m.

Sun.: from noon to 5 p.m.

Mon.: closed

More than 350 KU students have won Fulbright awards for international study.

C.E. Emphasis on cultural interactions on all levels (e.g., artistic, political, historical) with indigenous populations from Anatolia, the Near East, and Egypt to the Iberian Peninsula, and from North Africa to Central Europe. Includes lectures with slides and discussion; use of the Wilcox Museum of Classical Antiquities. No knowledge of Greek or Latin is required. Not open to students who have taken both CLSX 526/HA 526 and CLSX 527/HA 537, except by permission of the instructor. For undergraduates with backgrounds in the humanities and for graduate students. (Same as CLSX 528.) LEC

HA 529 Archaeology and Art of the Ancient Near East (3). H A cross-cultural survey of the material remains of the major civilizations of the ancient Near East, including Anatolia, Mesopotamia, the Levant, and Egypt from Neolithic period to the rise of the Roman empire (ca. 6000 B.C.E. - 30 B.C.E.). Includes lectures with slides and discussion. For advanced undergraduates with backgrounds in the humanities and for graduate students (especially in Classics and History of Art). No knowledge of Greek or Latin is required. (Same as CLSX 529.) LEC

HA 530 Renaissance Art in Italy: The Fifteenth Century (3). H/W The focus of this course is the history of Italian painting, sculpture, and architecture from 1400 to 1500. Special emphasis is placed on the diverse artistic styles and functions of works of art, as well as on the artists and patrons that produced them. Domestic art and the art and architecture of the 15th-century Italian courts are also discussed. Prerequisite: HA 100, HA 150, or the equivalent, or consent of instructor. LEC

HA 531 Renaissance Art in Italy: The Sixteenth Century (3). H This course explores the history of Italian painting, sculpture, and architecture from c. 1500 to 1600. It focuses on the artistic centers of Florence, Rome, Parma, and Venice. Some of the artists whose works are considered are Leonardo, Michelangelo, Raphael, Pontormo, Titian, Cellini, and Giambologna. The history of 16th-century women patrons and artists are also addressed. Prerequisite: HA 100, HA 150, HA 151, or the equivalent, or consent of instructor. LEC

HA 533 European Art, 1789-1848: Gender and Revolution (3). H This course will analyze painting in Europe from the late 18th century to the mid-19th century. Particular attention will be paid to the ways in which images represent and/or repress such themes as politics, history, gender, ethnicity, race, and class. Assigned readings present a variety of methodological perspectives—social-historical, feminist, formalist, and psychoanalytic. Graduate students may be expected to complete additional reading and writing assignments. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 534 Art in France, 1848-1900: Modernisms (3). H This course will examine painting in France from 1848 to 1900 with particular emphasis given to the visual articulation and/or repression of such constructs as gender, race, history, and ethnicity. Assigned readings present a variety of methodological perspectives—social-historical, feminist, formalist, and psychoanalytic. Graduate students may be expected to complete additional reading and writing assignments. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 535 Impressionism (3). H/W A study of the development of the Impressionist style in France in the 19th century. The theories and techniques of Degas, Cassatt, Manet, Monet, Morisot, Pissarro, and Renoir are emphasized, though lesser-known Impressionist artists are not neglected. The impact of Impressionism on the currents of modern art is examined. Prerequisite: An introductory course in art history plus either HA 261 or HA 455, or consent of instructor. LEC

HA 537 Roman Archaeology and Art (3). H/W An interdisciplinary survey of the material culture of ancient Rome from its origins to the late empire (8th c.B.C.E. - 4th c.C.E.). Emphasis on major sites, monuments, and changing forms of social and artistic expression, as well as on Etruscan and Greek influence on Rome and Rome's influences on its provinces. Includes lectures with slides and discussion; use of the Wilcox Museum of Classical Antiquities. No knowledge of Greek or Latin is required. For advanced undergraduates and graduate students with backgrounds in the humanities; and for graduate students (especially those in History of Art and Classics). (Same as CLSX 527.) LEC

HA 545 Early Chinese Art (3). H A survey of Chinese art from Neolithic times through the Han Dynasty (ca. 200 C.E.). Emphasis will be placed on recent archaeological excavations and also on the development of bronze vessels of the Shang and Zhou Dynasties. Prerequisite: A college level introduction to Asian art history, or consent of instructor. LEC

HA 546 Chinese Sculpture (3). H A survey of Chinese sculpture from the Shang dynasty through the Song dynasty (1600 B.C.E.-1279 C.E.), focused on sculptural programs in native funerary art and Buddhist temples and cave-shrines. LEC

HA 548 Buddhist Scriptures in Chinese Painting (3). H Examination of Chinese paintings based on the major Buddhist scriptures (sutras) popular in China from the 8th century through the early modern period. Readings include selections from the sutras (in translation). Emphasis is placed on the cultural and religious reasons why certain scriptural themes were selected for representation and on the distinctively Chinese interpretation of these themes in pictorial art. Prerequisite: One of the following: HA 265, HA 266, HA 585, ECIV 104, REL 106. LEC

HA 550 The Arts of the British Isles (3). HT H A study of the art of the British Isles from the Anglo-Saxon period to 1900, with emphasis on Anglo-Saxon, Norman, and Gothic monuments, 18th century architecture, and 18th- and 19th-century painting. Prerequisite: Nine hours of history of art, or a major in history or English. LEC

HA 555 Irish Culture (3). H/W An interdisciplinary study of elements that have contributed to the development of civilization in Ireland, from prehistoric times to the present day. Areas to be studied include art and architecture, mythology and folk culture, history, literature, demography and the family, and emigration patterns. Lectures and discussion periods. Prerequisite: Nine hours of history of art, or a major in English or history, or consent of instructor. LEC

HA 564 European Art, 1900-1945 (3). H A detailed survey of modern European art from the turn of the century through World War II. Movements to be considered may include post-impressionism, cubism, constructivism, dada, and surrealism. Graduate students may be expected to do additional reading and writing assignments. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 565 Art Since 1945 (3). H An international survey of modern and postmodern art since 1945. Topics to be covered may include abstract expressionism, pop, minimalism, happenings, and performance art, earth works, conceptual art, feminist art, photo-realism, crafts, and new media. Graduate students may be expected to complete additional reading and writing assignments. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 570 American Art (3). H A survey of American painting, sculpture, and architecture from colonial times to the present. (Same as AMS 580.) Prerequisite: An introductory course in Western art history at the college level. LEC

HA 571 Modern Sculpture (3). H A survey of avant-garde sculpture in Europe and America from the late 19th century to recent times. Attention will focus on the work of major sculptors considered within larger artistic, cultural, and historical contexts. Graduate students may be expected to complete additional reading and writing assignments. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 575 Northern Renaissance Art (3). H French, Netherlandish, and German art in the 15th and 16th centuries. Manuscripts, painting, prints, and sculpture from Jan Van Eyck to Pieter Brueghel, the Elder. Prerequisite: HA 100, HA 150, HA 151, or the equivalent, or consent of instructor. LEC

HA 576 Northern Baroque Art (3). H Seventeenth-century art in the northern and southern Netherlands with emphasis on painting of Rubens and Rembrandt. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 577 Southern Baroque Art (3). H This course explores the history, meaning, and style of the visual arts and architecture in Southern Europe during the 17th century. The principal geographical focus of the course is Italy, but the history of painting in Baroque Spain and France is also addressed. Attention is paid to issues such as theory, gender, and the importance of primary sources in understanding the history and art of this period. Artists whose works may be considered are Bernini, Borromini, Caravaggio, Artemisia Gentileschi, Poussin, and Velasquez. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 578 Central African Art (3). NW H/W Introduction to the arts and cultures of Central Africa. Emphasis is given to the major art-producing cultures of the Equatorial Forest and the Southern Savanna regions of Cameroon, Gabon, Congo, Zaire, and Angola. The historical and cultural contexts for the visual arts associated with centralized leadership and non-centralized societies are explored. (Same as AAAS 578.) LEC

HA 580 History of Photography (3). An advanced introduction to the history of photography as a means of artistic expression and visual communication. Special emphasis will be placed on critical readings and research projects. Prerequisite: Six hours of Western art history. LEC

HA 581 American Art, Colonial to Civil War (3). H A survey of major artists and movements in painting, sculpture, and allied arts, from the period of initial European settlement to the mid-19th century. Consideration will be given to developments in portraiture, history painting, landscape, still-life, statuary, and decorative arts. Attention will be paid both to formal developments and to cultural context. Graduate students may be expected to complete additional reading and writing assignments. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 582 American Art, 1860-1900 (3). A survey of major artists and movements in painting, sculpture, and allied arts in the later 19th century. Consideration will be given to developments in landscape painting and images of the American West, the impact of impressionism and other European movements, and the decorative programs of the Gilded Age. Attention will be paid both to formal developments and to cultural context. Graduate students may be expected to complete additional reading and writing assignments. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 583 American Art, 1900-1945 (3). H A survey of major artists and movements in painting, sculpture, and allied arts, from the early urban realists to the emergent avant-garde at mid century. Consideration will be given to the cosmopolitan tendencies of the 1910s and

the 1920s, to regionalist impulses of the 1930s, and the assimilation of European modernism. Attention will be paid both to formal developments and to cultural context. Graduate students may be expected to complete additional reading and writing assignments. Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 585 The Art of Buddhism (3). H/W A survey of the Buddhist arts (architecture, sculpture, and painting) of India, China, and Japan. LEC

HA 587 Japanese Sculpture (3). H A survey of Japanese sculpture from the Kofun period (300-700 C.E.) to the present day. Emphasis is placed on works of Buddhist sculpture from the 7th through the 13th centuries. Prerequisite: An introductory course in Asian art history or consent of instructor. LEC

HA 589 Japanese Artistic Encounters with Europe and the United States (3). H Consideration of Japanese artistic responses to visual culture from Europe and the United States. The course focuses upon Japanese art from the 16th century to the present. Prerequisite: A college-level introduction to Asian art history or consent of instructor. LEC

HA 590 Photography Since 1945 (3). H A critical and historical study of photography from 1945 to today. The great diversity of contemporary approaches to the art of photography will be emphasized by the in-depth study of recent photographers and photographic criticism. Special attention will be given to aesthetic trends in photography compared to developments in other media. Prerequisite: An introductory course in the history of photography or consent of instructor. LEC

HA 600 Biography of a City: _____ (3). H/W An interdisciplinary study of a city, covering its history, literature, and arts during the periods when the city's culture reached its height. LEC

HA 604 Special Study in Asian Art: _____ (3). H This course is intended to provide for special themes the department wishes to offer, usually on a trial basis, by itself or in cooperation with other departments, either on- or off-campus, as circumstances require. Prerequisite: An introductory course in Asian art history at the college level or consent of instructor. LEC

HA 615 Special Studies in Modern Art: _____ (3). H This course is intended to provide for special themes which will be offered on a limited basis. Prerequisite: An introductory course in Western art history at the college level or consent of instructor. LEC

HA 650 Classical Chinese Art Texts (3). H Close readings of selected important texts on art and aesthetics from the Han through Ming dynasties (1st-17th centuries). No previous knowledge of classical Chinese required. May be repeated for credit up to a maximum of twelve credit hours. Prerequisite: Two years of modern Chinese. LEC

HA 675 Special Studies in American Art: _____ (3). H Consideration of a specific topic in the history of American art (such as landscape or portraiture). Prerequisite: HA 100, HA 151, or the equivalent, or consent of instructor. LEC

HA 676 West African Art (3). NW H/W Introduction to the rich visual art traditions of West Africa. Emphasis is given to the major art-producing cultures of the Western Sudan and the Guinea Coast, including the archaeological cultures of Nigeria, Mali, and Ghana. The diverse forms of figure sculptures and masquerade performance and the meanings of these arts in historical and cultural contexts are examined. Upper division and graduate students can enroll for this course with appropriate course requirements. Not open to students who have taken AAAS 376/HA 376. (Same as AAAS 676.) LEC

HA 677 African Design (3). NW H/W A survey of sub-Saharan African media, emphasizing textiles, ceramics, metal and bead work, the artist's techniques, working methods and apprenticeship, and historical and contemporary cultural contexts, including the influence of tourism and the international art market on artistic production and style. Open to juniors, seniors, and graduate students only. (Same as AAAS 677.) Prerequisite: AAAS 376 or HA 376, or AAAS 578 or HA 578, or an introductory course in art history at the college level, or consent of instructor. LEC

HA 679 African Expressive Culture: _____ (3). NW H/W An in-depth examination of an artistic tradition shared by a number of African cultures. Discussion includes historical development related to style, use and meaning and other relevant issues critical to the topic. Open to juniors, seniors, and graduate students only. (Same as AAAS 679.) Prerequisite: AAAS 376 or HA 376, or AAAS 578 or HA 578, or an introductory course in art history at the college level, or consent of instructor. LEC

HA 687 Art of Modern China (3). H/W The art, especially painting, of China from 1800 to the present, with emphasis on the interaction between tradition and Western influence and on the relationship between artistic development and social changes. Prerequisite: Three hours of history of art or Asian studies, or consent of instructor. LEC

HA 704 Seminar on Christian Iconography (3).

HA 705 Major Artist: _____ (1-3).

HA 706 Seminar on Special Problems in Art History: _____ (1-6).

HA 707 Directed Readings (1-6).

HA 710 Museum Techniques and Functions (3).

HA 712 Directed Museum Study (1-6).

HA 715 Seminar in African Art (3).

HA 716 Art of the Early Middle Ages in the West (3).

HA 719 Art History Theory and Practice (3).

HA 723 Romanesque Art (3).

HA 725 The Gothic Cathedral (3).

HA 727 Medieval Spanish Art (3).

HA 745 Dutch and Flemish Painting of the Seventeenth Century (3).

HA 766 Calligraphy of China and Japan (3).

HA 782 Japanese Painting (3).

HA 783 Edo Period Painting (3).

HA 785 Masters of Sung and Yuan Dynasty Painting (3).

HA 786 Masters of Ming and Ch'ing Dynasty Painting (3).

HA 787 Chinese Painting (3).

HA 788 Proseminar in Japanese Art (3).

HA 789 Proseminar in Chinese Art (3).

Honors

Director: Stanley Lombardo, honors@ku.edu

Nunemaker Center, 1506 Engel Rd.

Lawrence, KS 66045-3845, (785) 864-4225

www.honors.ku.edu

The honors courses listed here are open to qualified students in any school of the university. For information about the University Honors Program, see the College of Liberal Arts and Sciences: General Requirements chapter of this catalog.

● Honors Courses

HNRS 190 Freshman Honors Tutorial (1). U Students meet in the class with their advisers to discuss topics of academic significance. The course provides an opportunity to gain effective exposure to intellectual values and methods under the guidance of regular faculty in a small and informal setting. The tutorial also facilitates a close working relationship between students and their honors adviser. Required of all freshman honors students, open only to freshmen in the University Honors Program. LEC

HNRS 310 University Scholars Seminar (3). U An interdisciplinary survey to acquaint students with some of the main ideas, methods, and outstanding problems in various areas of scholarship. The organization of human knowledge inside and outside the university, as well as the implications of this organization for scholarship and society, are emphasized. Ideas and methods in various disciplines are contrasted and compared. Required of and open only to newly admitted students in the University Scholars Program. LEC

HNRS 430 Honors Interdisciplinary Seminar (3). U An opportunity to synthesize topic across various subjects and disciplines. This course examines a problem or topic from the perspectives of several disciplines. Open to qualified sophomores, juniors, and seniors in the University Honors Program. LEC

HNRS 492 Topics and Problems on: _____ (1-6). U An interdisciplinary study of different topics. Designed especially for juniors and seniors. LEC

HNRS 495 Honors Directed Study (1-3). U Individual and supervised study of an interdisciplinary topic or topics. May be repeated for a total of up to 6 hours. Up to one 3-hour enrollment will count as one course toward completion of the University Honors Program. Prerequisite: Membership in the University Honors Program and consent of the instructor. IND

HNRS 520 University Scholars Junior/Senior Seminar (2-3). U An interdisciplinary seminar course designed for advanced-level students in the University Scholars Program. Faculty mentors are invited to attend. Will count toward completion of the University Honors Program. Prerequisite: HNRS 310 or concurrently. LEC

Human Biology

The B.A. degree in human biology is offered in the Division of Biological Sciences. See Biological Sciences.

Humanities and Western Civilization

Director: James Woelfel, humwc@ku.edu

Bailey Hall, 1440 Jayhawk Blvd., Room 308

Lawrence, KS 66045-7574

(785) 864-3011, fax: (785) 864-3023, www.hwc.ku.edu

Degree offered: B.A.

Honors courses are open to qualified students in any school at KU.

A KU semester abroad program, Western Civilization in Italy and France, is offered. See KU Study Abroad Programs in the Other Programs chapter of this catalog.

HWC 114, HWC 115, HWC 204, and HWC 205 are designated as writing-intensive courses by the College.

Courses for Nonmajors

All HWC courses are open to nonmajors. HWC 110, HWC 304, HWC 308, HWC 312, and HWC 430 are recommended to nonmajors for fulfilling the humanities principal course requirement.

Majors

Students have unusual freedom to select courses from a variety of departments. They can create integrated interdisciplinary programs and work closely with a faculty adviser. Majors may choose an emphasis in humanities, humanities with literature, or Western civilization. Depending on the emphasis, majors may focus on a particular era or culture in Eastern or Western civilization, such as the Italian Renaissance or China during the Ming dynasty, from an interdisciplinary perspective. Or they may examine a theme or issue that cuts across disciplinary lines, such as classicism versus romanticism or ideas of war and peace.

Students should plan their studies within the general requirements and consult the director or associate director early in the major. During the senior year, the student enrolls in HWC 424 Independent Study in Humanities and Western Civilization for 3 credit hours and writes a substantial paper on a topic related to the major area. The adviser for this paper must be a faculty member with expertise in the field of the paper, chosen by the student in consultation with the chair. A second reader is then appointed.

First- and Second-year Preparation. Consult the program office or an adviser early. No specific first- or second-year courses are required.

Requirements for the B.A. Major. The major requires courses in various departments. Majors also must take an HWC course that introduces them to interdisciplinary study from the standpoint of the major emphasis. Students in the humanities and humanities with literature emphases must select courses from at least three humanities departments. These include African and African-American studies, American studies, classics, East Asian languages and cultures, English, French and Italian, Germanic languages and literatures, history, history of art, musicology, philosophy, religious studies, Slavic languages and literatures, Spanish and Portuguese, and theatre and film. Courses with humanities content are taught in programs such as communication studies, women's studies, anthropology, and the area studies programs. Students in the Western civilization emphasis also may take such social sciences courses as geography and sociology as part of the major.

The *humanities emphasis* requires a total of 30 credit hours including

HWC 420 The Interrelations of the Humanities and the Arts or any other course offered by the program that treats the interrelations of the humanities and the arts

HWC 424 Independent Study in Humanities and Western Civilization 24 additional hours of junior/senior course work concentrated in three humanities departments, with a minimum of 6 hours and maximum of 15 hours from one department

The *literature emphasis* in humanities requires a total of 30 credit hours including

HWC 420 The Interrelations of the Humanities and the Arts

HWC 424 Independent Study in Humanities and Western Civilization 24 additional hours of junior/senior courses, including a course on a major author in the original language, a course in literary theory (HWC 390 or equivalent), and two courses from this sequence:

HWC 304 Masterpieces of World Literature I

HWC 308 Masterpieces of World Literature II

HWC 312 Masterpieces of World Literature III

The remaining hours should be completed in literature courses or closely related areas and are subject to the approval of an HWC adviser.

The *Western civilization emphasis* requires a total of 30 credit hours including

HWC 430 European Civilization in World Context: _____
HWC 424 Independent Study in Humanities and Western Civilization
Fulfillment of the B.A. foreign language requirement in Greek, Latin, or a major modern European language (French, German, Italian, Russian, Spanish)

At least 24 hours in courses numbered 300, as follows:

At least one course from each of the following historical periods, distributed among at least three disciplines (12 hours):
Ancient Near Eastern, Greek, and Roman Civilizations
Medieval Europe
Early Modern Europe
Modern Europe

One of the following courses (may be counted as one of the historical period courses):

HWC 304 Masterpieces of World Literature I
HWC 308 Masterpieces of World Literature II
HWC 312 Masterpieces of World Literature III

At least four courses focusing on a particular epoch (e.g., the Renaissance) or culture (e.g., France), at the 300 level or above, distributed among at least three disciplines (12 hours). Students who wish to specialize in a non-English-speaking culture must have the equivalent of at least the first two courses in the language.

Honors. A student must maintain a minimum overall grade-point average of 3.25 and of 3.5 in the major. Students must be recommended for honors by the readers of the comprehensive essays written for HWC 424 Independent Study. Members of the HWC advisory committee then evaluate the essay to determine whether the student should be awarded honors.

Peace and Conflict Studies Minor

Requirements for the Minor. The multidisciplinary program enables students to examine conflict within and between societies as well as ways that humans address conflict through war, mediation, law, diplomacy, institutions, and peaceful resistance. It requires 18 hours of course work and research or experiential learning including

9 hours of core courses from the following:

HWC 550 Classics of Peace Literature
REL 667 Religious Perspectives on War and Peace
SOC 534 Comparative Racial and Ethnic Relations
HIST 329 History of War and Peace
POLS 679 International Conflict

6 hours of specified electives. Sample courses include the following:

ANTH 465, EURS 505, HIST 343, HIST 370, HWC 555, HWC 560, HWC 565, PHIL 555, POLS 650, POLS 671, POLS 673, POLS 685, PSYC 572, REL 669, SOC 573

HWC 650 Senior Seminar in Peace and Conflict Studies (3). Students attend class and carry out substantive research on a peace-related topic to produce a capstone essay or final project.

Only 3 hours can be shared between the minor and any other minor or major. Students may not count more than 9 hours of course work from any single department toward completion of the minor.

Western Civilization Courses

Western civilization courses are offered through the Humanities and Western Civilization Program. These courses form a two-semester interdisciplinary program that critically examines the ideas and values of Western culture from its early expressions in ancient Greece, Rome, and Israel through the modern period.

The presentation of material is both historical and thematic. It offers a guided study of the past to help us better understand the present and envision the future. Influential authors and writings in Western arts and sciences direct attention to the enduring questions of how to lead a satisfying and worthwhile

human life. Themes are selected issues organized to focus goals and generate student discussion: (1) the good life, (2) work and economic life, (3) the citizen and the state, (4) knowledge and education, (5) intimacy and social life, (6) nature and the supernatural, and (7) morality and self-realization.

Western Civilization I and II are designated Writing-intensive courses by the College of Liberal Arts and Sciences and require students to complete 3,000 to 4,000 words of written work each semester in addition to essay portions of midterm and final exams.

Companion Courses. Students may find these 100-through 300-level courses helpful, either as background to or taken concurrently with Western civilization. Principal courses are marked with an asterisk.

*CLSX 148 Greek & Roman Mythology
 *COMS 332 The Rhetorical Tradition
 ENGL 300 The Bible, the Classics, & Modern Literature
 *GEOG 100 World Regional Geography
 HIST 105 Introduction to Ancient Near Eastern & Greek History
 HIST 106 Introduction to Roman History
 *HIST 108 Medieval History
 *HIST 114 Renaissance to Revolution: Europe 1500-1789
 *HIST 115 French Revolution to the Present: Europe 1789-Present
 *HA 100/HA 300 Introduction to Art History
 *HA 150 Art History I: Ancient Through Medieval Art
 HA 151 Art History II: Renaissance to Contemporary Art
 HWC 104 Humanities I—Ancient Greece
 HWC 108 Humanities II—Ancient Rome
 *HWC 110 Introduction to Humanities
 HWC 304 Masterpieces of World Literature I
 HWC 308 Masterpieces of World Literature II
 HWC 312 Masterpieces of World Literature III
 HWC 330 Humanities III—The Middle Ages
 HWC 338 Humanities IV—The Modern Era
 *PHIL 140 Introduction to Philosophy
 *PHIL 160 Introduction to Ethics
 *PHIL 288 Ancient Philosophy
 PHIL 292 Modern Philosophy from Descartes to Kant
 *REL 104 Introduction to Religion
 *REL 124 Understanding the Bible
 REL 311 Hebrew Scriptures (Old Testament in English)
 REL 315 History & Literature of Early Christianity
 REL 320 History of Judaism in the West
 REL 325 Introduction to Judaism
 REL 345 Christianity

Western Civilization Requirement. B.A. or B.G.S. students in the College of Liberal Arts and Sciences must satisfy the Western civilization requirement by taking two 3-hour courses, Western Civilization I and II. The regular course sequence is HWC 204 and HWC 205. The honors version is HWC 114 and HWC 115.

HWC 114-HWC 115 (honors). Three hours per week of lecture and discussion. Lectures presented by faculty followed by a small-group discussion class. Students must enroll in both the lecture and a linked discussion.

HWC 204-HWC 205. Three hours per week of lecture and discussion. Options include a large lecture linked to small-group discussion classes or a small-class format incorporating lecture and discussion components.

Western Civilization Semester Abroad. A few qualified students of at least sophomore standing may fulfill both semesters of their Western civilization requirement (as well as 3 hours in history and 3 hours in history of art) by participating in a semester study abroad program in Florence, Italy, and Paris, France. Contact the Office of Study Abroad.

● Humanities and Western Civilization Courses

HWC 104 Humanities I—Ancient Greece (4). H An introduction to Greek poetry, philosophy, and history through study of major primary texts in English translation. LEC

HWC 105 Humanities I—Ancient Greece, Honors (4). H An introduction to Greek poetry, philosophy, and history through study of major primary texts in English. Prerequisite: Membership in the College Honors Program. LEC

HWC 108 Humanities II—Ancient Rome (4). H An introduction to Roman poetry, philosophy, and history through study of major primary texts in English translation. Prerequisite: HWC 104. LEC

HWC 110 Introduction to Humanities (3). HL H An introduction to the humanities as a division of learning and to interdisciplinary study in the humanities. Topics include the history and role of the humanities in a liberal education, perspectives and methods in the humanities, the humanities and human diversity, and interdisciplinary approaches to understanding and interpreting texts. LEC

HWC 114 Western Civilization I, Honors (3). U A program of study emphasizing the reading and discussion of some of the most influential writings and ideas that have shaped the intellectual and cultural heritage of the Western world. Western Civilization I includes readings from the ancient, medieval, and early modern periods. Two large-section lecture periods and one small-group discussion period per week. Students enrolling in HWC 114 will attend a general lecture section and a special honors discussion section. Prerequisite: Membership in the College Honors Program or permission of department. LEC

HWC 115 Western Civilization II, Honors (3). U A program of study emphasizing the reading and discussion of some of the most influential writings and ideas that have shaped the intellectual and cultural heritage of the Western world. Western Civilization II includes readings from the modern period. Two large-section lecture periods and one small-group discussion period per week. Students enrolling in HWC 115 will attend a general lecture section and a special honors discussion section. Prerequisite: Membership in the College Honors Program or permission of department, and completion of HWC 114 or HWC 204. LEC

HWC 130 Myth, Legend, and Folk Belief in East Asia (3). NW H/W A survey of the commonly held ideas about the beginning of the world, the role of gods and spirits in daily life, and the celebrations and rituals proper to each season of the year. The purpose of the course is to present the world view of the ordinary peoples of East Asia in contrast to their more sophisticated systems of philosophy which are better known to the Western world. (Same as ANTH 293, EALC 130, and REL 130.) LEC

HWC 204 Western Civilization I (3). U A program of study emphasizing the reading and discussion of some of the influential writings and ideas that have shaped the intellectual and cultural heritage of the Western world. Western Civilization I includes readings from the ancient, medieval, and early modern periods. Prerequisite: Not open to freshmen except members of the Honors Program. LEC

HWC 205 Western Civilization II (3). U A program of study emphasizing the reading and discussion of some of the influential writings and ideas that have shaped the intellectual and cultural heritage of the Western world. Western Civilization II includes readings from the modern period. Prerequisite: HWC 114 or HWC 204. Not open to freshmen except members of the Honors Program. LEC

HWC 206 Contemporary Western Civilization (3). H A sequel to the two Western Civilization courses which offers the opportunity to examine influential works of literature, philosophy, history, and political thought written since the end of World War II. In keeping with the decline of colonialism and the growth of global and multicultural civilization since 1945, the readings of the course are selected from both Western and non-Western writers. LEC

HWC 300 Studies In: ____ (3). H An interdisciplinary course, focusing on different topics and drawing on diverse media, cultures, and historical periods. Humanities-based, this course, depending on its topic, may include the arts, the social sciences, and the natural sciences. May be repeated for credit with different topics. LEC

HWC 302 European Culture and Society, 1945 to Present: Decline of Modernity and Rise of Postmodernism (3). HT H The course provides historical, cultural, and political overviews of Europe since 1945 with particular emphasis on the contribution of French and Italian culture and society. The course emphasizes Europe's contribution to Western intellectual thought, social movements, arts and literature, and global society. (Same as EURS 302.) LEC

HWC 304 Masterpieces of World Literature I (3). HL H The study of great books in English translation from antiquity through the fifteenth century from two or more national literatures. LEC

HWC 305 Studies in Narrative (3). H Studies of narrative concepts and structures in one or more of the humanities, such as literature, history, or philosophy. Discussion and frequent critical papers. LEC

HWC 308 Masterpieces of World Literature II (3). HL H The study of great books in English translation from the sixteenth, seventeenth, eighteenth, and early nineteenth centuries from two or more national literatures. LEC

HWC 312 Masterpieces of World Literature III (3). HL H The study of great books in English translation in the modern period (late nineteenth and twentieth centuries) from two or more national literatures. LEC

HWC 324 Undergraduate Writing and Research Methods (1). H Preparation for senior thesis project required of HWC majors. Introduction to writing strategies, library investigation, and time management skills. Open to HWC majors and others engaged in research and writing at the undergraduate level. Class will proceed by discussion of skills, methods, and examples, and will culminate in a written proposal from each student. LEC

A multidisciplinary minor in peace and conflict studies is available through humanities and Western civilization.

The University of Kansas prohibits discrimination on the basis of race, color, religion, sex, national origin, age, ancestry, disability, veteran status, sexual orientation, marital status, and parental status.

HWC 330 Humanities III—The Middle Ages (4). H/W An integrated study of several disciplines such as history, philosophy, art, music, and literature as they relate to the middle ages. May emphasize several national literatures, the medieval culture of one country, or the early or late middle ages. LEC

HWC 338 Humanities IV—The Modern Era (4). H An introduction to the poetry, philosophy, and history of the modern age, beginning with the Renaissance, through study of major primary texts. Prerequisite: HWC 330. LEC

HWC 340 The Renaissance (3). H An integrated study of several disciplines such as history, philosophy, art, music, and literature as they relate to the fourteenth through the early seventeenth centuries. May emphasize several national literatures, the Renaissance culture of one country, or one historical period. LEC

HWC 350 The Enlightenment (3). H An integrated study of several disciplines such as history, philosophy, art, music, and literature as they relate to the seventeenth and eighteenth centuries. May emphasize several national literatures, the enlightenment culture of one country, or one century. LEC

HWC 360 The Nineteenth Century (3). H An integrated study of several disciplines such as history, philosophy, art, music, and literature as they relate to the nineteenth century. May emphasize several national literatures, the nineteenth century in one country, or one historical or aesthetic movement occurring during this time. LEC

HWC 370 The Twentieth Century (3). H An integrated study of several disciplines such as history, philosophy, art, music, and literature as they relate to the twentieth century in one country, or one historical or aesthetic movement occurring during this time. LEC

HWC 374 Gender and Sexuality, Ancient and Modern (3). H Classical Greek and Roman attitudes to gender and sexuality compared and contrasted with modern nations and behaviors. Attention is paid to literature (dramatic, philosophical, medical, and legal texts) and archaeological evidence (vase painting, sculpture, and domestic architecture). The course may include the following topics: age divisions and rites of passage from childhood to maturity; marriage; conception, birth, and infanticide; the family; love; homoeroticism; property and economics; and sexuality and the law, politics, and religion. No knowledge of Greek or Latin is required. (Same as CLSX 374.) LEC

HWC 380 Modern Themes, Ancient Models: ____ (3). H The study of the evolution of a cultural or literary tradition from the Graeco-Roman world into modern times. The theme of the course will normally vary from semester to semester; topics such as these may be examined: the analysis of a literary genre (e.g. drama, satire, lyric), the transformation of the ancient mythical heritage, the reception of ancient astronomy. Students should consult the timetable for the theme of the course in a given semester. With departmental permission, may be repeated for credit as topic varies. (Same as CLSX 350.) LEC

HWC 390 Introduction to Literary Theory (3). H A study of selected works in literary theory and of selected problems in literary interpretation and comparative literature methodology, designed to examine and apply systematically basic critical principles and approaches. Discussion of these approaches will be related to the previous study of literature and deepened through individual papers written by participants and presented to the group. To take this course for credit in a foreign language department, students will be required to do extensive work in that language. (Same as ENGL 308, GERM 560, SLAV 394, and SPAN 390.) Prerequisite: Completion of one junior-senior level course in a language and literature department. LEC

HWC 410 Dante's Comedy (3). H The complete Divine Comedy will be read in English translation, with equal stress on each of its three parts—the Inferno, the Purgatory, and the Paradise. The poem will be explained for the general reader by specialists having a variety of perspectives. (Same as HIST 420.) LEC

HWC 420 The Interrelations of the Humanities and the Arts (3). H An interdisciplinary seminar on the relations of several of the humanities and the arts. Topics will vary, but the interrelation of the humanities and arts will be the central focus. Not open to freshmen and sophomores; recommended in the junior year. Required of students majoring in humanities. LEC

HWC 424 Independent Study in Humanities and Western Civilization (3). H Independent study to result in a senior thesis in the student's area of emphasis in the major. With the assistance of a HWC faculty adviser, the student will select a supervisor for the thesis and a second reader. Not open to freshmen and sophomores; recommended in the senior year. Required of students majoring in Humanities and Western Civilization. Prerequisite: HWC 420 for students in Humanities emphasis, HWC 430 for students in the Western Civilization emphasis. IND

HWC 430 European Civilization in World Context: ____ (3). HL H An introduction to the literature of encounters between European and non-European civilizations, drawing on both Western and non-Western sources. The course may include European interactions with areas such as the Mediterranean Basin, Sub-Saharan Africa, South and East Asia, and the Americas. World areas and historical periods chosen for study will vary from semester to semester according to the interest and

field of the instructor. Not open to freshmen. (Same as EURS 430.) Prerequisite: HWC 114 or HWC 204 and HWC 115 or HWC 205. LEC

HWC 440 The Comic Spirit (3). H An integrated study of the nature of comedy in several disciplines such as literature, art, and music. May emphasize the development of philosophy of the comic, one discipline, or one period. (Same as ENGL 405.) LEC

HWC 444 The Tragic Spirit (3). H An integrated study of the nature of tragedy in several disciplines such as literature, art, and music. May emphasize the development or philosophy of the tragic, one discipline, or one period. (Same as ENGL 406.) LEC

HWC 452 The Spirit of Romance (3). H An integrated study of the nature of the romance in several disciplines such as literature, art, and music. May emphasize the development or philosophy of the romance, one discipline, or one period. (Same as ENGL 408.) LEC

HWC 460 Animals in Art and Literature (3). H A study of the role of animals (especially mammals), both wild and domesticated, in defining the nature of human beings and human culture through the disciplines of religious studies, philosophy, history, art and literature. Both western and non-western courses are examined. LEC

HWC 464 Visions in Art and Literature (3). H A study of the phenomenon of visions, their expression in various media, and theories of visionary experience from the humanities and social sciences, with a particular emphasis on critically evaluating the relationship between the visionary experience and its expression. (Same as REL 464.) LEC

HWC 468 Illness in Art and Literature (3). H An examination of how illness and health have been conceptualized, expressed, and explored in Western literature and art, as well as a consideration of issues and health from the perspectives of philosophy and religious studies. (Same as REL 468.) LEC

HWC 494 Directed Study: ____ (1-3). H Investigation of a subject in fields or on topics not covered in regularly scheduled courses. May be repeated for a total of 6 hours. Does not replace or satisfy specific course requirements for the HWC major. May be counted as part of the total junior-senior credit hours required. LEC

HWC 500 Studies in: ____ (3). H A study of significant themes, topics, or problems in the humanities. May also relate an issue in the humanities to the social sciences or natural sciences. May be repeated for credit when the topic varies. LEC

HWC 510 Science, Technology, and Society (2-3). H The objective of this course is to provide members of the university community with information that enables them to judge the humanistic, moral, and ethical implications of scientific and technological developments. Formal presentations by guest lecturers, followed by question-and-answer periods, will alternate with panel discussions, symposia, etc., prepared by faculty members drawn from the various departments, schools, and organizational units of K.U. LEC

HWC 514 Totalitarianism and Literature in Central Europe (3). H This course asks how fiction written in Central Europe engaged and grappled with the totalitarian experience imposed by Nazi and Soviet forms of government. The course focuses on the works by 20th-century Polish, Czech, and Hungarian writers that deal with totalitarianism. (Same as SLAV 514.) LEC

HWC 520 Literature in Translation: ____ (3). H Studies in one or more national literatures. Discussion and frequent critical papers. Prerequisite: Completion of one junior-senior level course in a language and literature department. LEC

HWC 524 Chinese Thought (3). NW H/W A survey of the principal modes of Chinese thought from their origins through the imperial period. Not open to students with credit in EALC 132. (Same as EALC 642 and PHIL 506.) Prerequisite: Eastern civilization course or a course in Asian history or a distribution course in philosophy. LEC

HWC 530 Study of a Culture: ____ (3). H/W An interdisciplinary study of elements that have contributed to the development of a particular civilization, such as Irish, Scottish, or Scandinavian. LEC

HWC 540 Translation (3). H Students will undertake substantial work in the translation of non-technical writing, e.g., poems, short stories, novels, essays, from any foreign language to English, and examine the practical and theoretical problems encountered in or raised by translation. Prerequisite: Satisfactory completion of at least third-year foreign language work. LEC

HWC 550 Classics of Peace Literature (3). HL H A study of influential proposals for world peace from Erasmus' *The Complaint of Peace* (1515) to the 1995 Hague Appeal for World Peace. Selected writings by such authors as Erasmus, Hugo Grotius, Jean-Jacques Rousseau, Immanuel Kant, Henry Thoreau, Henri Dunant, Berthe von Suttner, Woodrow Wilson, Mahatma Gandhi, and Martin Luther King Jr. are considered. (Same as EURS 550.) Prerequisite: HWC 204 or HWC 205. LEC

HWC 555 Topics in Peace and Conflict Studies: ____ (3). H This course offers specialized or interdisciplinary perspectives on historical, political, social, and religious movements, institutions, societies, agencies, or texts dealing with conflict resolution. May be repeated for credit with different topics. LEC

KU is one of the few universities in the nation to offer indigenous languages like Kaqchikel Maya, South American Quichua, and Haitian Creole.

The international studies co-major is offered in conjunction with a bachelor's degree major in another academic discipline. It also can be combined with a bachelor's degree in a professional school such as business or journalism.

HWC 560 Directed Study in Peace and Conflict Studies (1-3).

Practicum or research under the supervision of a faculty member and with the approval of the Peace and Conflict Studies Minor. Individual conferences, reports, and papers, and, in the case of practicum, supervised experience with an approved organization or agency. Prerequisite: Completion of three core courses in the minor. IND

HWC 565 The Literature of Human Rights (3). H Examines in literature, art, and film from about 1800 to the present, both sides of the ongoing debate surrounding the idea that all human persons possess inalienable rights because all persons possess intrinsic value as persons, value independent of race, gender, caste or class, wealth, age, sexual preference, etc. Anti- and pro-rights proponents are paired and studied with equal care. (Same as EURS 565.) LEC

HWC 566 The Devil in Russian Literature (3). H This course traces the various manifestations of the Devil through Russian and European folklore, myth, theology, culture, and literature. Although the focus is on Russian literature, classic European works are discussed, as they had a powerful impact on the modern Russian conception of the Evil One. Readings in English. (Same as SLAV 566.) LEC

HWC 600 Biography of a City: ____ (3). H/W Examination in depth of the historical, social, and artistic growth and development of one major urban center. LEC

HWC 620 Study of a Culture: ____ (3). H/W An interdisciplinary study of elements that have contributed to the development of a particular civilization, such as Irish, Scottish, or Scandinavian. LEC

HWC 650 Senior Seminar in Peace and Conflict Studies (3). H This capstone seminar provides a sustained and in-depth study of a particular topic in Peace and Conflict Studies, to be chosen by the instructor. Each student is required to carry out a substantive research project to produce a term paper or comparable work. Required for completion of minor. Prerequisite: Students must have completed at least nine hours in the minor before enrolling. LEC

HWC 760 Investigation and Conference in Peace and Conflict Studies (3).

Hungarian

See Germanic Languages and Literatures.

Information Processing Studies

Robert Weaver, CLAS Associate Dean
Strong Hall, 1450 Jayhawk Blvd., Room 200
Lawrence, KS 66045-7535
(785) 864-3661

● Information Processing Studies Courses

IPS 101 Elements of the Theory of Computation (3). NM N An introduction to the theoretical areas of computer science and their applications. Emphasis will be placed on the methods and standards by which computer science makes judgments and on what computers can and cannot accomplish. Among major topics covered are: how to read and to implement algorithms; what is memory and how much of it is required for various tasks; why computers cannot multiply; how finite-state machines compute; applications of finite-state machines to programming; recognizing languages; formal grammars. "Can machines think?" and other contemporary topics in the philosophy of computer science will be covered as time permits. Prerequisite: MATH 101 or MATH 104. LEC

IPS 302 Journey Through Genius, Honors (3). N The course explores some of the most significant and enduring ideas in mathematics: the great theorems, discoveries of beauty and insight that stand today as monuments to the human intellect. Emphasis will be placed on the methods and standards by which mathematics makes judgments. Among the major topics covered are: Euclid and the infinitude of primes, Archimedes determination of circular area, Cardano and the solution of the cubic, the Bernoullis and the harmonic series, a sample of Euler's number theory, Cantor and the transfinite realm. Along with the essential mathematics, the humanity of these great mathematicians is captured. Prerequisite: Membership in the University Honors Program, high school algebra and geometry, and permission of the instructor. LEC

IPS 400 Topics in the Theory of Computing (1-3). This course is designed to allow students to do further readings in the theory of computing beyond the material presented in IPS 101. Topics, scope, and meeting times to be arranged for the individual student. Prerequisite: IPS 101 and consent of instructor. LEC

International Studies

Department of Political Science, Blake Hall,
1541 Lilac Lane, Room 522, Lawrence, KS 66044-3177
(785) 864-3523, www.ku.edu/~iscm

Degree offered: Bachelor's (co-major only)

The degree in international studies is available only as a co-major in conjunction with a bachelor's degree major in another academic discipline. The co-major also can be combined with a bachelor's degree in a professional school such as business or journalism.

Co-major

First- and Second-year Preparation. Prospective co-majors should enroll in three of the following core courses (or their honors equivalents) in the first two years:

ECON 104 Introductory Economics
GEOG 102 Principles of Human Geography
POLS 170 Introduction to International Politics
POLS 150 Introduction to Comparative Politics

Enrollment in these courses counts toward College principal course distribution requirements in the social sciences. Students planning to pursue the co-major are encouraged to fill out a Declaration of Major form no later than the end of the sophomore year.

Requirements for the Co-major. Students must complete three of the four core courses and 24 to 28 additional hours (at least 18 hours at the junior/senior level) in three categories: basic skill development (language or economics), regional expertise (course work or study abroad), and a substantive specialization. A list of courses that may be used to fulfill the latter two categories can be obtained from the Department of Political Science, 504 Blake Hall.

Basic Skill Development. Option 1: Students take at least 6 hours of language study *beyond* the CLAS general education requirements (or 6 hours *beyond* the requirements of a student's professional school). This additional language study can be in the same language used to fulfill the general education requirement or a new language appropriate to the student's area of regional expertise. **Or:**

Option 2: Students take two of the following international economics courses: Microeconomics (ECON 520 or ECON 521), Macroeconomics (ECON 522 or ECON 523), International Trade (ECON 604) and International Finance (ECON 605). Students in this option may petition the director to substitute ECON 142 or ECON 144 for ECON 104 in the core requirements.

Regional Expertise. Students must take 9 hours of course work focused on a particular region of the world. This can be fulfilled by participating in a KU or KU-affiliated study abroad program, by enrolling in three courses on campus (drawn from one of these regional groups: Africa and the Middle East, Asia, Europe, South and Central America and the Caribbean, Russia and Eastern Europe), or by combining these two activities. For instance, a student might study in Paris for the summer (6 hours) and enroll in POLS 652 Politics in Western Europe at KU. Language courses taken abroad may count in this section only if they are at a level beyond the basic skill development requirement.

Substantive Specialization. Students must take 9 hours of course work from one of these four specializations: Comparative Political and Social Systems; Conflict and Cooperation; Culture, Ethnicity, and Belief Systems; or Political Economy.

There is no limit to the number of courses that can count for both KU general education requirements and the co-major. No more than 12 junior/senior hours (300 level or above) from a student's primary major may count toward the co-major. Students taking the co-major as a *third* major may double-count one additional course. No courses may be double-counted *within* the co-major. Courses taken abroad may not be used to meet both the regional expertise section and the skill development or specialization sections.

Italian

See French and Italian.

Japanese

See East Asian Languages and Cultures.

Jewish Studies Minor

See Religious Studies.

KiSwahili

See African and African-American Studies.

Korean

See East Asian Languages and Cultures.

Latin

See Classics.

Latin American Area Studies

Director: Elizabeth A. Kuznesof, latamst@ku.edu
 Associate Director: Peter Herlihy
 Undergraduate Director: Anita Herzfeld
 Bailey Hall, 1440 Jayhawk Blvd., Room 320
 Lawrence, KS 66045-7574
 (785) 864-4213, fax: (785) 864-3800, www.ku.edu/~latamst
 Degrees offered: B.A., B.G.S., M.A.

The program offers a wide range of opportunities for students from most academic disciplines to study this region. KU has particular depth in Central America, Haiti, the Andes, Paraguay, and Brazil and professors and courses concerned with much of the rest of Latin America. KU has an excellent library collection on Latin America and is one of the few U.S. universities teaching Haitian Creole, Kaqchikel Maya, and Andean Quichua.

The B.A. degree provides a broad academic background with a regional focus, usually in conjunction with a second major, and a mastery of Spanish and other languages. The program enables students to take courses in many departments and lays the foundation for graduate work. Students are encouraged to pursue graduation with honors in Latin American studies.

Prospective majors should begin language study in Spanish or Portuguese as early as possible. The intensive language program is recommended for those without high school preparation. Prospective majors are encouraged to choose courses with Latin American content (e.g., LAA 100, LAA 332, HIST 121) to meet College principal course requirements. **All students must be advised by the program's designated adviser.**

Majors

Students may earn a double major (one in a particular discipline and one in Latin American studies) or complete a single major in Latin American studies. In addition to meeting the College language requirement in Spanish or Portuguese, all majors earn a minimum of 30 hours in substantive courses on Latin America.

Language Requirements. The College language requirement must be met in either Spanish or Portuguese. Two semesters or the equivalent are re-

quired in another Latin American language: Spanish or Portuguese (whichever was not taken before), Haitian Creole, Kaqchikel Maya, or Andean Quichua.

Required Course Work

Disciplinary Distribution

One 3-hour course in Spanish-American literature numbered above 400 or Brazilian literature or theatre and film in Latin America or music in Latin America 3
 HIST 120 Colonial Latin America 3
 Three courses, each in a different discipline, selected from the list of courses approved for Latin American area studies; literature and history courses do not apply 9

Primary and Secondary Emphases. Four courses (12 hours) from one of the five Topic Groups chosen by the student as the primary emphasis and three courses (9 hours) from one of the remaining Topic Groups chosen as the secondary emphasis. Courses listed under more than one Topic Group may only be counted toward one group.

Fieldwork. Students may complete supervised study in Latin America or the Caribbean for a minimum of one month. Fieldwork can be taken as independent study in a discipline or as part of a developed field course; it normally includes 3 to 6 credit hours. The student must present a plan for fieldwork to the Latin American studies undergraduate director, and the department must approve it before any travel. Honors students may use fieldwork as the first of their two semesters of LAA 499.

Students who do not pursue fieldwork in Latin America or the Caribbean must complete 9 hours of courses taught completely in Spanish or Portuguese. The course work in advanced language study must be outlined with the Latin American studies adviser. At least one of these three courses must be in a field other than language and literature. Grammar, composition, and conversation courses do not apply. Courses taken as part of an academic semester abroad may be applicable.

Additional Field of Concentration. Students must select an additional concentration in a specific discipline (not an interdisciplinary department) and complete 15 hours of courses numbered 300 or above in that field. Language courses numbered below 500 do not apply. Courses used to fulfill the required course work above may count toward this requirement.

Requirements for the Minor. The minor requires a total of 18 hours:

Two of the following courses are required: 6
 LAA 100 Latin American Culture and Society 6
 LAA 332 Language and Society in Latin America 6
 LAA 334 Indigenous Traditions of Latin America 6
 LAA 335 The Politics of Language in Latin America 6
 LAA 302 Topics in Latin American Area Studies: _____

Four courses (12 hours) at the junior/senior level are required; they can be chosen from the list of courses approved for Latin American Studies. One course may be shared with the major.

Honors. Graduation with departmental honors is awarded for exceptional performance in the major, completion of independent research or an alternative project, and a strong overall academic record.

1. Candidates should declare their intention to work for honors to the undergraduate director no later than enrollment for the first semester of the senior year. Return the intent form to 109 Strong Hall.

2. At the end of the final undergraduate semester, the candidate must have an overall grade-point average of at least 3.25 and of at least 3.5 in the major. Both overall and major grade-point averages include work done at other institutions as well as at KU.

3. Each candidate must complete an independent research project, or its equivalent, related to Latin American studies.

- The candidate must enroll in LAA 499 Honors Course in Latin American Studies for two semesters, 3 hours per semester, and earn a grade of B or higher in the first semester and a grade of A in the second semester.
- The candidate must submit a one-page proposal to the undergraduate director describing the honors project and naming at least three faculty members who have agreed to evaluate it. The candidate must obtain a written statement from the undergraduate director that the project is relevant to Latin American studies. The committee chair must be a Latin American studies faculty member.
- The results of the candidate's project must be presented to the committee in writing or in another form appropriate to the project. The committee certifies successful completion of the honors project.

Courses by Topics

Note: Students choosing their own topics for research papers must select a topic related to Latin America. All courses must have at least 25 percent Latin American content to count toward the LAA major.

I. Language, Literature, and Culture

AAAS 301/HAIT 200 Portrait of a Third-World Nation: Haiti
 AAAS 333 Introduction to Caribbean Literature
 AAAS 520 African Studies in: Caribbean Short Story/
 ENGL 479 The Literature of: Caribbean Short Story
 ANTH 695/GEOG 670 Cultural Ecology (taught by Gibson or Herlihy)
 ENGL 479 Literature of: Contemporary Chicano Writers
 ENGL 573 U.S. Latina/o Literature: _____
 GEOG 593 Central American Peoples & Lands
 HA 100 Introduction to Art History (taught by Frank)
 HA 505 Special Study: Latin America
 HA 515 Latin American Art 1492-1992
 HA 706 Seminar on Special Problems in Art History: _____
 HAIT 501 Directed Studies in Haitian Culture
 HAIT 700 Investigation & Conference
 HIST 371 The Cultural History of Modern Latin America
 INS 801 Indigenous Peoples of the World (taught by Fixico)
 INS 802 Applied Indigenous Leadership
 INS 803 Issues Facing Indigenous Peoples of the Americas (taught by Fixico)
 LAA 100 Latin American Culture & Society
 LAA 302/LAA 602 Topics in Latin American Area Studies: _____
 LAA 332 Language & Society in Latin America
 LAA 333 Language & Society in Latin America, Honors
 LAA 335 The Politics of Language in Latin America
 LAA 500 Directed Study in Latin American Area Studies
 LAA 501 Multilingualism & Multiculturalism in Latin America
 LAA 503 Race, Gender, Ethnicity, & Nationalism in Latin America
 LAA 504 Politics of Culture in Modern Latin America
 LAA 505 U.S. Latino & Latin American Film & Literature
 LAA 506 Race, Gender, Ethnicity, & Nationalism in Latin America, Honors
 LING 491 Topics in Linguistics: _____ (must be a Latin American topic)
 LING 565 Native Mesoamerican Writing
 LING 575 The Structure of: Latin American Language
 MUSC 305 Music of Latin America
 PORT 300 Brazilian Culture
 PORT 320 Introduction to Portuguese & Brazilian Literatures
 PORT 471 Studies in Brazilian Culture & Civilization: _____
 PORT 475 Studies in Brazilian Literature: _____
 PORT 509 Phonetics
 PORT 740 Survey of Brazilian Literature
 PORT 742 The Brazilian Novel
 PORT 746 The Brazilian Short Story
 PORT 750 Brazilian Poetry
 PORT 760 Contemporary Brazilian Literature
 PORT 780 Special Readings in Portuguese & Brazilian Literature
 SPAN 340 Textual Analysis & Critical Reading
 SPAN 429 Spanish Phonetics
 SPAN 440 Hispanic Studies: _____
 SPAN 447 Latin American Cultures: _____
 SPAN 448 Spanish Language & Culture for Business
 SPAN 460 Colonial Spanish-American Studies: _____
 SPAN 461 Nineteenth-century Spanish-American Studies: _____
 SPAN 462 Twentieth-century Spanish-American Studies: _____
 SPAN 463 National Traditions in Spanish America: _____
 SPAN 471 Studies in Spanish-American Culture & Civilization: Study Abroad
 SPAN 475 Studies in Spanish-American Literature: Study Abroad
 SPAN 520 Structure of Spanish
 SPAN 522 Advanced Studies in Spanish Language: _____
 SPAN 540 Colloquium on Hispanic Studies: Latin American Topics
 SPAN 560 Colloquium on Latin American Film
 SPAN 770 Spanish-American Drama
 SPAN 771 Spanish-American Literature: _____
 SPAN 772 The Modern Spanish-American Novel, 1900-1950
 SPAN 773 The Modern Spanish-American Novel Since 1950
 SPAN 781 Spanish-American Colonial Studies
 SPAN 785 Special Studies in Spanish-American Literature: _____
 T&L/C&T 325 Education in a Multicultural Society
 T&L/C&T 743 Multicultural Education
 TH&F 302 Undergraduate Seminar in Cuban Cinema
 TH&F 585 Latin American Film (undergraduate)
 TH&F 702 Graduate Seminar in Cuban Cinema
 TH&F 885 Latin American Film (graduate)
 TH&F 902 Film Seminar in Political Economy of Film & Television Industries

II. Historical Studies

AAAS 301/HAIT 200 Portrait of a Third-World Nation: Haiti/
 HWC 620 Study of a Culture: Portrait of a Third-World Nation: Haiti
 AAAS 574/HIST 574 Slavery in the New World
 ANTH 110/ANTH 310 Introduction to Archaeology (taught by Hoopes)

ANTH 415 The Rise of Civilization (taught by Hoopes)
 ANTH 506 Ancient American Civilizations: Mesoamerica
 ANTH 507 The Ancient Maya
 ANTH 508 Ancient American Civilizations: The Central Andes
 ANTH 512 Ethnohistory: Latin America
 ANTH 563 Cultural Diversity in the United States
 ANTH 674 Political Anthropology
 ANTH 704 Current Cultural Anthropology
 ANTH 718 Seminar in Latin American Archaeology: Lower Central America
 ANTH 775 Seminar in Cultural Anthropology: Contemporary Problems (taught by Hoopes)
 ECON 534 Economic History of the Caribbean Region
 HA 100 Introduction to Art History
 HA 505 Special Study: Latin America
 HA 515 Latin American Art 1492-1992
 HA 706 Seminar on Special Problems in Art History: _____
 HIST 103/EVRN 103 Environment & History (taught by Cushman)
 HIST 120 Colonial Latin America
 HIST 121 Modern Latin America
 HIST 122 Colonial Latin America, Honors
 HIST 319 History, Women, & Diversity in the U.S.
 HIST 326 Native American Civilizations & Their European Conquerors
 HIST 331 Atlantic Societies 1450-1800: A Comparative History of European Colonization
 HIST 370 Violence & Conflict in Latin American History
 HIST 371 The Cultural History of Modern Latin America
 HIST 372 Violence & Conflict in Latin American History, Honors
 HIST 490 Honors Course in History: Latin America
 HIST 509 Multinational Corporations: The Role of Money & Power
 HIST 510 Topics in: Latin America
 HIST 551 Spain & its Empire, 1450-1700
 HIST 571 The Spanish Borderlands in North America
 HIST 572 The United States Borderlands: People, Place, Past
 HIST 573 Latin America in the 19th Century
 HIST 575 History of Mexico
 HIST 576 History of Central America
 HIST 577 History of the Caribbean
 HIST 578 Social History of South America
 HIST 579 The History of Brazil
 HIST 580 Economic History of Latin America
 HIST 581 Topics in Third-World History: Nationalism & Revolution in the Third World (taught by Kuznesof, Rosenthal, or Stansifer)
 HIST 607 The Family in History: Comparative Perspectives
 HIST 630 United States Diplomatic History II
 HIST 636 Agriculture in World History
 HIST 696 Seminar in: History of Disasters (taught by Kuznesof, Rosenthal, Cushman, or Stansifer)
 LAA 100 Latin American Culture & Society
 LAA 302/LAA 602 Topics in Latin American Area Studies: _____
 LAA 332 Language & Society in Latin America
 LAA 333 Language & Society in Latin America, Honors
 LAA 335 The Politics of Language in Latin American
 LAA 499 Honors Course in Latin American Studies
 LAA 500 Directed Study in Latin American Area Studies
 LAA 504 Politics of Culture in Modern Latin America
 TH&F 585 Latin American Film (undergraduate)
 TH&F 885 Latin American Film (graduate)

III. Economics, Geography, Political Science, and Sociology
 ANTH 161/ANTH 361 The Third World: Anthropological Approaches (taught by Moos)
 ECON 534 Economic History of the Caribbean Region
 ECON 582 Economic Growth & Development
 ECON 584 Economic Development of Latin America
 ECON 604 International Trade
 ECON 605 International Finance
 ECON 740 Theory of Economic Growth & Development
 ECON 750 The Theory of International Finance
 ECON 844 Macroeconomic Issues in Developmental Economics
 EVRN 148/GEOG 148 Principles of Environmental Studies
 EVRN 149/GEOG 149 Principles of Environmental Studies, Honors
 FIN 400 Individual Research in Finance: Emerging Markets
 GEOG 100 World Regional Geography (taught by Herlihy)
 GEOG 304 Environmental Conservation (taught by Brown)
 GEOG 570 Geography of American Indians
 GEOG 571 Topics in Cultural Geography: Latin America
 GEOG 591 Geography of Latin America
 GEOG 592 Middle American Geography
 GEOG 593 Central American Peoples & Lands
 GEOG 597 Geography of Brazil
 GEOG 670 Cultural Ecology
 GEOG 771 Topics in Cultural Geography: _____ (taught by Brown)
 GEOG 791 Latin American Regions: _____
 HIST 509 Multinational Corporations: The Role of Money & Power
 HIST 580 Economic History of Latin America
 HIST 607 The Family in History: Comparative Perspectives
 HIST 630 United States Diplomatic History II
 HIST 696 Seminar in _____

The Center of Latin American Studies is one of 13 comprehensive National Resource Centers designated by the U.S. Department of Education.

You can request your ARTS form online at www.artsform.ku.edu.

To request an ARTS form, you must be currently enrolled at KU, and you must have a KU Online ID. You will only receive an ARTS form for the school in which you are enrolled.

IBUS 303 Business, Culture, & Society: Latin America (BUS 400)
 IBUS 410 Introduction to International Business (BUS 632)
 IBUS 415 Business in Latin America (BUS 685)
 JOUR 502 International Journalism
 JOUR 538 International Marketing Communications
 LAA 100 Latin American Culture & Society
 LAA 302/LAA 602 Topics in Latin American Area Studies: _____
 LAA 332 Language & Society in Latin America
 LAA 333 Language & Society in Latin America, Honors
 LAA 335 The Politics of Language in Latin America
 LAA 500 Directed Study in Latin American Area Studies
 LAA 501 Multilingualism & Multiculturalism in Latin America
 LAA 504 Politics of Culture in Modern Latin America
 LAA 505 U.S. Latino & Latin American Film & Literature
 LAA 506 Race, Gender, Ethnicity, & Nationalism in Latin America
 LAA 701 Interdisciplinary Seminar in Latin American Culture & Problems
 POLS 150 Introduction to Comparative Politics (taught by Herron)
 POLS 151 Introduction to Comparative Politics, Honors (taught by Herron)
 POLS 350 Contemporary Issues in Comparative Politics (if term paper deals with Latin America)
 POLS 564 Elections & Political Parties Around the World (taught by Herron)
 POLS 651/WS 651 Women & Politics in Latin America
 POLS 658 Theories of Politics in Latin America
 POLS 659 Political Dynamics of Latin America
 POLS 660 The Politics & Problems of Developing Countries (taught by Reich)
 POLS 663 Protest & Revolution
 POLS 670 United States Foreign Policy
 POLS 682 U.S. Policy—Post-Colonial World (taught by Gerner)
 POLS 726 Public Policy in Comparative Perspective
 SOC 130 Comparative Societies
 SOC 531 Global Social Change
 SOC 535 Gender in the Global Context
 SOC 627 School & Society
 SOC 630 Latin American Society
 SOC 780 Advanced Topics in Sociology: Graduate Seminar on Women of the Third World/Women of Latin America
 SOC 875 The Political Economy of Globalization
 SPAN 448 Spanish Language & Culture for Business
 TH&F 902 Film Seminar in Political Economy of Film & Television Industries
 WS 600 Contemporary Feminist Political Theory
 WS 665 Women, Health, & Healing in Latin America

IV. Anthropology, Religious Studies, and Women's Studies
 ANTH 110/ANTH 310 Introduction to Archaeology (taught by Hoopes)
 ANTH 160/ANTH 162/ANTH 360 Varieties of Human Experience (taught by Dean)
 ANTH 161/ANTH 361 The Third World: Anthropological Approaches (taught by Moos)
 ANTH 313 New Discoveries in Archaeology (taught by Hoopes)
 ANTH 380 Peoples of South America
 ANTH 410 Archaeological Myths & Realities
 ANTH 415 The Rise of Civilization (taught by Hoopes)
 ANTH 506 Ancient American Civilizations: Mesoamerica
 ANTH 507 The Ancient Maya
 ANTH 508 Ancient American Civilizations: The Central Andes
 ANTH 512 Ethnohistory: Latin America
 ANTH 520 Archaeological Ceramics (taught by Hoopes)
 ANTH 580/WS 580 Feminism & Anthropology (taught by Currie)
 ANTH 586 Visual Anthropology (taught by Gibson)
 ANTH 652 Population Dynamics (taught by Crawford)
 ANTH 665/WS 665 Women, Health, & Healing in Latin America (taught by Jenkins)
 ANTH 674 Political Anthropology (taught by Dean)
 ANTH 695/GEOG 670 Cultural Ecology (taught by Gibson)
 ANTH 704 Current Cultural Anthropology
 ANTH 718 Seminar in Latin American Archaeology: Lower Central America (taught by Hoopes or Dean)
 ANTH 775 Seminar in Cultural Anthropology: Contemporary Problems (taught by Dean, Gibson, or Jenkins)
 ANTH 785 Topics in Ethnology: South America
 BUS 400 Special Topics: Business, Culture, & Society in Latin America
 GEOG 570 Geography of American Indians (taught by Herlihy)
 HIST 371 The Cultural History of Modern Latin America
 HIST 607 The Family in History: Comparative Perspectives
 LAA 100 Latin American Culture & Society
 LAA 302/LAA 602 Topics in Latin American Area Studies: _____
 LAA 332 Language & Society in Latin America
 LAA 333 Language & Society in Latin America, Honors
 LAA 335 The Politics of Language in Latin America
 LAA 499 Honors Course in Latin American Studies
 LAA 501 Multilingualism & Multiculturalism in Latin America
 LAA 503 Race, Gender, Ethnicity, & Nationalism in Latin America
 LAA 506 Race, Gender, Ethnicity, & Nationalism in Latin America, Honors
 POLS 651/WS 651 Women & Politics in Latin America

PORT 471 Studies in Brazilian Culture & Civilization: _____
 SOC 535 Gender in the Global Context
 SOC 780 Advanced Topics in Sociology: Graduate Seminar on Women of the Third World
 SPAN 447 Latin American Cultures: _____
 SPAN 448 Spanish Language & Culture for Business
 SPAN 471 Studies in Spanish-American Culture & Civilization: _____
 T&L/C&T 325 Education in a Multicultural Society
 T&L/C&T 705 International Issues in the K-12 Classroom
 TH&F 302 Undergraduate Seminar in Cuban Cinema
 TH&F 585 Latin American Film (undergraduate)
 TH&F 702 Graduate Seminar in Cuban Cinema
 TH&F 885 Latin American Film (graduate)
 WS 396 Studies in _____
 WS 499 Honors in Women's Studies
 WS 560 Race, Gender, & Post-Colonial Discourses
 WS 562 Women & Politics
 WS 600 Contemporary Feminist Political Theory

V. Environmental Policy

ANTH 695/GEOG 670 Cultural Ecology (taught by Gibson)
 BIOL 414 Principles of Ecology (offered by Environmental Studies)
 BIOL 420 Seminar: _____ (if 25 percent Latin American content)
 BIOL 701 Topics in: _____ (if 25 percent Latin American content)
 EVRN 148/GEOG 148 Principles of Environmental Studies (taught by Brown)
 EVRN 149/GEOG 149 Principles of Environmental Studies, Honors (taught by Brown)
 GEOG 100 World Regional Geography (taught by Herlihy or Brown)
 GEOG 304 Environmental Conservation (taught by Brown)
 GEOG 570 Geography of American Indians (taught by Herlihy)
 GEOG 571 Topics in Cultural Geography: _____ (taught by Brown or Herlihy)
 GEOG 591 Geography of Latin America
 GEOG 592 Middle American Geography
 GEOG 593 Central American Peoples & Lands
 GEOG 597 Geography of Brazil
 GEOG 670 Cultural Ecology
 GEOG 771 Topics in Cultural Geography: _____
 GEOG 791 Latin American Regions: _____
 HIST 103/EVRN 103 Environment in History (taught by Cushman)
 HIST 636 Agriculture in World History (taught by Worster)
 HIST 696 Seminar in History of Disasters (taught by Cushman)
 LAA 302/LAA 602 Topics in Latin American Area Studies: _____
 LAA 499 Honors Course in Latin American Studies
 LAA 500 Directed Study in Latin American Area Studies
 SOC 531 Global Social Change
 UBPL 565 Introduction to Environmental Planning (taught by Luckey)
 UBPL 756 Advanced Seminar in Urban Transportation Planning

● Latin American Area Courses

LAA 100 Latin American Culture and Society (3). SC H An introduction to the interdisciplinary study of Latin America, as manifest in the arts and literature, history, and in environmental, political, economic, and social realities. Explores and critiques the principal themes and methodologies of Latin American Studies, with an aim towards synthesizing contributions from several different disciplines. Emphasizes the unique insights and perspectives made possible by interdisciplinary collaboration and provides students with a basic knowledge base for understanding Latin America today. LEC

LAA 302 Topics in Latin American Area Studies: _____ (3). U Investigation of special topics on Latin America at the undergraduate level. LEC

LAA 332 Language and Society in Latin America (3). NW S This course will examine the cultural and social significance of Amerindian languages in Latin America. Spanish and Portuguese will be related in language situations to Amerindian languages, such as Quechua, Aymara, the Mayan languages, Nahuatl, and Guarani. Some African-substratum Creole languages will be used to illustrate the multifaceted relations between language and ethnic group, sex, nation, geography, social class, context, and social interaction. LEC

LAA 333 Language and Society in Latin America, Honors (3). NW S This course will examine the cultural and social significance of Amerindian languages in Latin America. Spanish and Portuguese will be related in language situations to Amerindian languages, such as Quechua, Aymara, the Mayan languages, Nahuatl, and Guarani. Some African-substratum Creole languages will be used to illustrate the multifaceted relations between language and ethnic group, sex, nation, geography, social class, context, and social interaction. Prerequisite: Membership in the University Honors Program. LEC

LAA 334 Indigenous Traditions of Latin America (3). NW S/W A survey of the major indigenous traditions of Mesoamerica, the Andes, and lowland tropical Latin America. Coverage emphasizes how indigenous cultural traditions and societies have both continued and changed since the European Invasion and addresses such current issues as language rights, territorial rights, sovereignty, and state violence. Students enrolled in the 600-level section will be required to

complete additional research and class leadership tasks. Not open to students who have taken LAA 634. (Same as ANTH 379.) LEC

LAA 335 The Politics of Language in Latin America (3). NW S Although approximately 600 indigenous languages are spoken by 30 million people in Latin America, public life is conducted in Spanish. The class provides a comprehensive survey of language issues in Latin America by analyzing the situation of minority language groups, language rights, language policies, and language planning, as well as by considering the questions that arise regarding bilingual education, literacy, and the role of minority languages in educational systems. LEC

LAA 402 Topics in Latin American Area Studies (3). U Investigation of special topics on Latin America at the undergraduate level. LEC

LAA 499 Honors Course in Latin American Studies (3). H Intensive study and research under faculty direction. Open to students wishing to graduate with honors in Latin American Studies and having a grade point average of at least 3.5 in Latin American Studies and at least 3.25 overall. Requires an interdisciplinary project concerning a specific topic involving at least two disciplines. Must be directed by a faculty member in Latin American Studies, approved by the Center Associate Director, and defended before a committee of at least three faculty members. To earn departmental honors, a student must take the course for two semesters (with a minimum grade of B the first semester, and an A the second). LEC

LAA 500 Directed Study in Latin American Area Studies (1-3). U Independent study and directed reading on special topics. IND

LAA 501 Multilingualism and Multiculturalism in Latin America (3). H Examines the sociolinguistic issues of multilingual countries in Latin America from an interdisciplinary perspective. Topics include but are not limited to linguistic inequality, the language of politics, language and education, urban and rural linguistic interaction, and indigenous and creole languages. Prerequisite: A liberal arts course with Latin American content. LEC

LAA 503 Race, Gender, Ethnicity, and Nationalism in Latin America (3). NW H The development of cultural identity in Latin America is traced through the study of major narrative trends including Amerindian languages and the analysis of "indigenista" literature. The African substratum of Latin American culture and its relation to concepts such as "marvelous realism" is explored. The importance of "race," "gender," and "ethnicity" are investigated as tools to define national identity in Latin America. The influence of modernization, industrialization, and nationalistic and populist thought on their emergence of distinctive writing and themes is also assessed. LEC

LAA 504 Politics of Culture in Modern Latin America (3). H This course explores the relationship between political development and cultural phenomena of Latin America from 1800 to the present, with special emphasis on gender, popular culture, and ideology. The influences of 20th-century ideologies and technology on cultural development in Latin America will also be examined. LEC

LAA 505 U.S. Latino and Latin-American Film and Literature (3). H This course follows the development of U.S. Latino and Latin American cinema from its origins to the present and its relationship with literary discourse. U.S. Latino/Latin American cinema can be seen as a specific practice that cannot be reduced in all its manifestations to the institutional mode of production of the dominant Hollywood model. The course examines the creation of a national cinema that seems to be more dependent on a literary canon. Knowledge of Spanish is not required. LEC

LAA 506 Race, Gender, Ethnicity, and Nationalism in Latin America, Honors (3). NW H The development of cultural identity in Latin America is traced through the study of major literary works of the nineteenth and twentieth centuries. The importance of "race," "gender," and "ethnicity" are explored as tools to define national identity in Latin America. The impact of modernization, industrialization, and nationalistic and populist thought on the emergence of distinctive writing and themes is also assessed. Prerequisite: Membership in the University Honors Program. LEC

LAA 602 Topics in Latin American Area Studies: ____ (3). U Investigation of special topics on Latin America. LEC

LAA 634 Indigenous Traditions of Latin America (3). NW S/W A survey of the major indigenous traditions of Mesoamerica, the Andes, and lowland tropical Latin America. Coverage emphasizes how indigenous cultural traditions and societies have both continued and changed since the European Invasion and addresses such current issues as language rights, territorial rights, sovereignty, and state violence. Students enrolled in the 600-level section will be required to complete additional research and class leadership tasks. Not open to students who have taken ANTH 379 or LAA 334. LEC

LAA 665 Women, Health, and Healing in Latin America (3). S This seminar uses a life-cycle approach to examine women's health (physical, mental, and spiritual) and their roles as healers. Special consideration is given to the effects of development programs on well-being, access to health care, and changing roles for women as healers. Cases will be drawn from a variety of Latin American contexts. (Same as ANTH 665 and WS 665.) Prerequisite: 6 hours course work in Anthropology and/or Women's Studies and/or Latin American Studies. LEC

LAA 700 Introduction to Latin American Library Resources (3).

LAA 701 Interdisciplinary Seminar in Latin American Culture and Problems (3).

LAA 703 Research Colloquium on Brazil (3).

LAA 704 Research Colloquium on Central America and Mexico (3).

Law (Prelaw Study)

See Prelaw in this chapter of the catalog. See also the separate *School of Law Catalog*.

Leadership Studies Minor

See Communication Studies in this chapter.

Liberal Arts and Sciences

College Student Academic Services, Strong Hall
1450 Jayhawk Blvd., Room 109, Lawrence, KS 66045-7535
(785) 864-3500, www.clas.ku.edu/us

Some LA&S courses are special seminars that do not fulfill specific requirements. They vary greatly but share an interdisciplinary nature, relevant and thought-provoking topics, and an emphasis on classroom discussion. Other LA&S courses are taught on the campus of Haskell Indian Nations University. Some fulfill the non-Western culture requirement.

● Liberal Arts and Sciences Courses

LA&S 101 Learning Communities Seminar (1-2). U This course is designed to expand student's knowledge of the University community by exploring an academic theme and the connections between courses. Through the study of different topics students will explore the inherent interdisciplinarity of fields of study. Designed especially for freshmen and sophomores. Enrollment is limited to students participating in designated learning community. Concurrent enrollment in specified learning community courses is required. May be repeated for credit up to 4 hours. SEM

LA&S 110 Cherokee Language I (5). U Emphasizes the vocabulary of and fundamentals of reading and writing the Cherokee language. Students will have an opportunity to learn the language, beliefs, and religious practices of the Cherokee. Taught at Haskell Indian Nations University. LEC

LA&S 120 Cherokee Language II (5). U Continuation of Cherokee Language I. Includes an intermediate level of vocabulary skill with increased emphasis on reading and writing. Taught at Haskell Indian Nations University. Prerequisite: LA&S 110. LEC

LA&S 160 Dean's Scholars Program Seminar (1). U An enhancement of communication, time management, and leadership skills. The students will explore resources and determine goals pertinent to their objectives regarding graduate school. Restricted to students in the Dean's Scholars Program. LEC

LA&S 200 Topics at HINU: ____ (1-6). U Special topics at the undergraduate level. Taught at Haskell Indian Nations University. Special permission from the Provost's Office required. LEC

LA&S 202 History of North American Indian Tribes (3). NW H Introductory survey of the origin, evolution, and distribution of Indians throughout North America, location of tribes in historic times, their relationships to one another, and their responses to white penetration of the continent. Emphasis on American Indian leadership and major contributions of American Indian people to American society. Taught at Haskell Indian Nations University. LEC

LA&S 204 Contemporary Issues of the American Indian (3). H An overview of current and historical issues which have resulted in policies and regulations affecting American Indians and Alaska Natives. The issues include: education, treaties, sovereignty and self-determination, religions, natural resources, legislation, jurisdiction, reservation and/or urban status, federal trust relationship, tribal economics and enterprises, American Indian policy, federal recognition, and current issues both regional and local. Taught at Haskell Indian Nations University. LEC

LA&S 206 Indian Law and Legislation (3). S An introduction and general overview of federal Indian law and processes and its relationship to tribal governments. Focus will be on sovereignty and its relationship to the internal and domestic laws of the United States government, tribal governments, and the international community. Taught at Haskell Indian Nations University. LEC

LA&S 208 Tribal/Federal Government Relations (3). S An introductory study of the special relationship that exists between the federal

For an illustrated explanation of a sample ARTS form, go to www.clas.ku.edu/us and click on "Arts Form."

Prelaw students should consult the prelaw adviser, 126 Strong Hall, about undergraduate courses.

Many of the LA&S courses offered at Haskell Indian Nations University are taught infrequently. To take a course at HINU, KU students must have permission from the KU Office of the Provost. Only a few KU students receive approval.

government and tribal governments. Included will be a general overview of specific programs, laws, and court decisions that address the unique relationship that exists between two sovereign nations; the United States Government and tribal governments. Taught at Haskell Indian Nations University. LEC

LA&S 210 Tribal Resources and Economic Development (3). S Inventory and identify the resources currently available to tribal governments to include natural and human resources and those financial resources available to tribal governments from federal, state, and private resources. Included will be an economic analysis on how to best optimize available resources while recognizing the economic concept of constrained maximization. Taught at Haskell Indian Nations University. LEC

LA&S 212 Chemical Dependency and the Native American (3). S Examines the continuum of chemical abuse and dependency and the emotional, physical, intellectual, and spiritual effects of addictions on individuals, families, and communities. In addition, treatment approaches and relapse prevention efforts are discussed. Special emphasis is placed on integrating Native American understandings and responses to chemical addictions. Taught at Haskell Indian Nations University. LEC

LA&S 214 Ethnobiology (5). N Integrates Native American traditional knowledge of ecology and biology with modern, western science. One purpose of the course is to preserve the unique knowledge and varied cultural traditions relating to the life sciences that are possessed by indigenous people. Taught at Haskell Indian Nations University. LEC

LA&S 230 Cherokee Language III (3). U Continuation of Cherokee language II. Taught at Haskell Indian Nations University. Prerequisite: LA&S 120. LEC

LA&S 240 Cherokee Language IV (3). U This course is a continuation of LA&S 230, Cherokee Language III, and includes the study of grammar, with particular attention to speaking fluency and continued practice in reading and writing. Taught at Haskell Indian Nations University. Prerequisite: LA&S 230. LEC

LA&S 250 Western Civilization I (3). H The beliefs and values of Western civilization from the eighth century BC to the close of the eighteenth century are compared with the ideas central to American Indian cultural traditions. Fulfills the Western Civilization I requirement for CLAS. Taught at Haskell Indian Nations University. LEC

LA&S 252 Western Civilization II (3). H The beliefs and values of Western Civilization since the close of the eighteenth century are compared with the ideas central to American Indian cultural traditions. Fulfills the Western Civilization II requirement for CLAS. Taught at Haskell Indian Nations University. LEC

LA&S 292 Topics and Problems on: ____ (1-6). U An interdisciplinary study of different topics. Designed especially for freshmen and sophomores. LEC

LA&S 301 Learning Communities Seminar (1-2). U This course is designed to expand student's knowledge of the University community by exploring an academic theme and the connections between courses. Through the study of different topics students will explore the inherent interdisciplinarity of fields of study. Designed especially for juniors and seniors. Enrollment is limited to students participating in designated learning community. Concurrent enrollment in specified learning community courses is required. May be repeated for credit up to 4 hours. LEC

LA&S 340 Computers for the Classroom (1-3). U "The Art and Science of Computer Presentation." An inter-disciplinary course designed to explore current technology in "Computer Presentations" (various equipment and programs), research the field of information processing, and develop applications for interactive multi-media communications. Not open to students who have received credit for LA&S 740. Prerequisite: Consent of instructor. LEC

LA&S 400 Teaching and Tutoring Writing (3). U This course explores the techniques necessary to work with writers and teaches writing across all disciplines. Students will learn about tutoring and teaching writing through collaborative techniques and interpersonal dynamics. They will learn more about themselves as writers as they begin to build a repertoire of writing strategies useful in their studies, in the workplace, and in their personal lives. Meets with LA&S 700. LEC

LA&S 450 Topics at Haskell Indian Nations University: ____ (1-6). Special topics at the junior/senior undergraduate level. Taught at Haskell Indian Nations University. Special permission from the Provost's office required. LEC

LA&S 492 Topics and Problems on: ____ (1-6). U An interdisciplinary study of different topics. Designed especially for Juniors and Seniors. LEC

LA&S 700 Writing Consulting Theory and Practice (1-3).

LA&S 740 Computers for the Classroom (1-3).

LA&S 792 Topics in: ____ (1-3).

Linguistics

Chair: Sara Thomas Rosen
Blake Hall, 1541 Lilac Lane, Room 427
Lawrence, KS 66044-3177
(785) 864-3450, www.linguistics.ku.edu

Degrees offered: B.A., B.G.S., M.A., Ph.D.

The department offers a broad range of courses that provide a basic understanding of human language and communication. Linguistics courses examine the universal features of language that underlie the human capacity to express concepts and communicate ideas. They address the connections between language, culture, mind, literature, and history. The major gives students a basic understanding of the human capacity to acquire and produce language and of language's role in contemporary society.

Linguistics is a superb preparation for careers that require expertise in the use of language as a means of communication, e.g., business, communications, personnel administration, health care, and social service. Many majors pursue graduate study in computer science, education, law, psychology, and languages.

Majors

First- and Second-year Preparation. A student who plans to major in linguistics should fulfill the College foreign language requirement by the end of the sophomore year. LING 106, which is required for the major, provides an introductory survey of the field. Students should discuss their plans with a department adviser.

Requirements for the B.A. or B.G.S. Major. In addition to the College foreign language proficiency requirement, the major requires a structure course in a language other than the one used for the College requirement. A one-semester structure course analyzes a language in linguistic terms and does not aim to impart speaking or reading knowledge. One of the two required languages must be non-Indo-European.

Thirty hours of linguistics department courses are required, including

LING 106 Introductory Linguistics
LING 305 Introduction to Phonetics **or** LING 705 Phonetics I
LING 312 Introduction to Phonology **or** LING 712 Phonology I
LING 331 **or** LING 731 Semantics I
LING 525 Introduction to Syntax **or** LING 725 Syntax I
A course in comparative and historical linguistics
Additional courses to complete the 30-hour requirement

Requirements for the Minor. The minor requires 18 credit hours, as follows:

LING 106 or LING 107 Introductory Linguistics	3
LING 305 Introduction to Phonetics	3
LING 312 Introduction to Phonology	3
LING 322 Grammar: A Functional and Typological Approach (3) or LING 525 Introduction to Syntax (3)	3
Plus 6 hours of linguistics courses numbered 300 or above, excluding principal courses	6

Honors. To graduate with honors in linguistics a student must complete LING 496 in addition to the major requirements. The student must have a grade-point average of at least 3.5 in linguistics and 3.25 in all courses. Consult the undergraduate major adviser or any member of the department for information.

● Linguistics Courses

LING 106 Introductory Linguistics (3). SC S Introduction to the fundamentals of linguistics, with emphasis on the description of the sound system, grammatical structure and semantic structure of languages. The course will include a survey of language in culture and society, language change, computational linguistics and psycholinguistics.

Linguistics courses examine the universal features of language that underlie the human capacity to express concepts and communicate ideas.

Some departments do not offer all courses listed in any one semester. Consult the Timetable of Classes, www.timetable.ku.edu, for current course offerings.

tics, and will introduce students to techniques of linguistic analysis in a variety of languages including English. (Same as ANTH 106.) LEC

LING 107 Introductory Linguistics, Honors (3). SC S Introduction to the fundamentals of linguistics, with emphasis on the description of the sound system, grammatical structure, and semantic structure of languages. The course includes a survey of language in culture and society, language change, computational linguistics and psycholinguistics, and introduces students to techniques of linguistic analysis in a variety of languages including English. Open only to students admitted to the University Honors Program or by consent of instructor. (Same as ANTH 107.) LEC

LING 110 Language and Mind (3). SI S A study of the relation between language and the human mind, focusing on what it means to "know" a language, the roots of language knowledge, and the relation between language knowledge and other cognitive systems. Additional topics include what is innate and what is learned during language acquisition, and how language is organized as a system of separate units or modules. LEC

LING 120 The Physics of Speech (4). N An introduction to the acoustic structure of speech intended for nonscience majors. Emphasis will be placed on the methods and standards by which scientists measure and evaluate the physical characteristics of speech. Topics will include: simple harmonic motion, the propagation of sound waves, aerodynamic aspects of vocal fold vibration, resonance, digital speech processing, frequency analysis, and speech synthesis. Three class hours and one laboratory per week. (Same as SPLH 120.) Prerequisite: MATH 101 or 104 or equivalent. LEC

LING 180 Study Abroad Topics in Linguistics: _____ (1-3). U This course is designed for the study of special topics in Linguistics. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

LING 305 Introduction to Phonetics (3). S This course provides a basic introduction to the study of human speech sounds. Topics to be covered include anatomy and physiology of the speech production apparatus, transcription and production of the world's sounds, basic acoustics, computerized methods for speech analysis, acoustic characteristics of speech sounds, stress, and intonation. A hands-on laboratory project is part of the course. Prerequisite: LING 106 or LING 107 or LING 700. LEC

LING 307 Phonetics II (3). S This course is a continuation of Phonetics I (LING 305/705) and provides a more detailed survey of acoustic and auditory phonetics. Topics to be covered include vocal tract acoustics, quantal theory, speaker normalization, theories of speech perception, prosody, the phonetics of second language acquisition, and the production and perception of cues to gender, talker, region, and socio-economic status. In addition, a number of laboratory projects are required. Prerequisite: LING 305/705. LEC

LING 308 Linguistic Analysis (3). H Practice in applying the techniques of phonological, grammatical, and syntactic analysis learned in introductory linguistics to data taken from a variety of languages of different structural types. Prerequisite: An introductory course in linguistics. LEC

LING 312 Introduction to Phonology (3). S This course is an introduction to phonological theory. It focuses on crucial phonological concepts such as underlying and surface representations, phoneme and allophone, contrast, alternation, neutralization, distinctive features, and syllable. It provides the basic skill set for phonological analysis, including UR selection, rule notation, rule ordering, and common phonological universals. It also touches on theory-building in phonology, with discussions on the external motivations for phonological grammar, how to lay out the predictions of a theoretical proposal, and how phonological predictions can be empirically tested. Prerequisite: LING 305/705. LEC

LING 314 Phonology II (3). S This course is a continuation of a survey of phonological theory. The course starts with the discussion of the conspiracy and duplication problems in rule-based phonology and works its way to Optimality Theory. Topics in Optimality Theory (OT) include its conceptual and empirical advantages over rule-based phonology, its potential problems and their possible remedies, issues of learnability and acquisition, the relevance of phonetics in OT constraints, and correspondence theory. Prerequisite: LING 312/712. LEC

LING 320 Language in Culture and Society (3). SC S Language is an integral part of culture and an essential means by which people carry out their social interactions with the members of their society. The course explores the role of language in everyday life of peoples in various parts of the world and the nature of the relationship between language and culture. Topics include world-view as reflected in language, formal vs. informal language, word taboo, and ethnography of speaking. (Same as ANTH 320.) LEC

LING 321 Language in Culture and Society, Honors (3). SC S An honors section of LING 320 for students with superior academic records. Not open to students who have had ANTH 320 or LING 320. (Same as ANTH 321.) Prerequisite: Membership in the University Honors Program or consent of instructor. LEC

LING 322 Grammar: A Functional and Typological Approach (3). H Different languages use different linguistic mechanisms to encode meanings. This course surveys grammatical concepts and categories found in the world's languages including tense, aspect, mood, voice,

person and number, as well as case relations, such as nominative, accusative, ergative, and absolutive. Basic word order typology and discourse functions such as topic, focus, and cohesion are introduced. Examples will be drawn from a wide variety of languages to illustrate how the same concept may be encoded differently, i.e., morphologically, syntactically, or lexically, in different languages. Prerequisite: An introductory course in linguistics. LEC

LING 331 Semantics I (3). S A study of meaning in natural language usage. Emphasis on referential semantics. Set theory, propositional and first-order logic, and intensional and modal logic as they relate to natural language sentences in a formalized language. Prerequisite: A course in syntax. LEC

LING 340 Sociolinguistics (3). S The formal features of language reflect a broad range of social factors, including age, context, culture, occupation, sex and social class. This course will introduce students to the ways social variables affect the forms of spoken and written language. Prerequisite: An introductory linguistics course or consent of instructor. LEC

LING 345 Language and Gender (3). S This course explores the relationship between language use and gender. The course will specifically focus on how gender affects the ways we use spoken language as well as how we interpret the speech of others. Topics to be discussed will include the function of language in social relationships and language variation in different social contexts. LEC

LING 350 Comparative and Historical Linguistics (3). S Human language may be characterized as possessing flexibility, which causes languages to be different from one another in different degrees. This course explores the way languages undergo change in time (historical linguistics), and the ways two or more languages are similar or different (comparative linguistics). The course teaches students how to establish whether languages are genetically related or belong to totally different language families. Prerequisite: An introductory course in linguistics. LEC

LING 370 Introduction to the Languages of Africa (3). NW H/W A survey of the indigenous languages of Africa from a linguistic perspective, covering the main language families and their geographic distribution, and focusing on the features and structure of the more widely spoken and representative languages in each family (e.g. Fula, Hausa, Maninka, Swahili, Yoruba). (Same as AAAS 370.) LEC

LING 415 Linguistics and Second Language Acquisition (3). H Introduction to the study of second language acquisition: The application of theoretical linguistics to the description of the language that a learner acquires, and to the process of acquisition. Prerequisite: An introductory course in linguistics. LEC

LING 416 Linguistics and Second Language Acquisition II (3). S This advanced course provides in-depth reading and discussion of several current topics including second language acquisition within a generative framework, processing approaches to second language acquisition, and the role of input and learnability principles in second language acquisition. Both theoretical and methodological issues are discussed. Prerequisite: LING 415/715 and LING 525/725; or permission of instructor. LEC

LING 418 Introduction to Cognitive Science (3). S Examines the data and methodologies of the disciplines that comprise Cognitive Science, an interdisciplinary approach to studying the mind and brain. Topics may include: consciousness, artificial intelligence, linguistics, education and instruction, neural networks, philosophy, psychology, anthropology, evolutionary theory, cognitive neuroscience, human-computer interaction, and robotics. (Same as PHIL 418, PSYC 418, and SPLH 418.) Prerequisite: Consent of instructor. LEC

LING 420 Research Methods in Linguistics (3). S This course provides a foundation for designing, conducting, and critically evaluating quantitative and qualitative research in the language sciences. Topics include formulating a research hypothesis, participant selection, ethical considerations, the scientific method, validity, reliability, data collection, dependent and independent variables, descriptive and inferential statistics. This course serves students who are interested in the basics of research design and statistics for the study of language. Prerequisite: LING 106 or LING 107 LEC

LING 425 Child Language: An Introduction to Acquisition of Communicative Competence (3). S An introductory course in the acquisition of child language. The course will cover relevant historical studies of child language but will focus primarily on recent psycholinguistic approaches toward the description of the process by which a child acquires his native language. Phonological, syntactic, semantic, cognitive, pragmatic, sociolinguistic, and anthropological aspects of the acquisition process are covered. Prerequisite: An introductory course in linguistics. LEC

LING 427 Generative Study of Second Language Acquisition (3). S An introduction to second language acquisition within a generative framework. Topics to be covered include functional categories, movement constraints, binding principles, and metrical parameters. Prerequisite: LING 525 or LING 725, which may be taken concurrently. LEC

LING 430 Linguistics in Anthropology (3). S The study of language as a symbolic system. Exploration into the interrelatedness of linguistic systems, of nonlinguistic communicative systems, and of other cultural systems. (Same as ANTH 430.) LEC

LING 447 North American Indian Languages (3). S Introduction to the nature and distribution of North American Indian languages. Not open to students with credit in LING 747. Students taking this course at the 700 level will have different course requirements. Prerequisite: An introductory course in linguistics. LEC

LING 453 The Indo-European Language Family (3). S A survey of the Indo-European language family: its members, divisions, and history; with an introduction to comparative grammar and a history of scholarship in the field. Not open to students with credit in LING 753. Students taking this course at the 700 level will have different course requirements. Prerequisite: An introductory course in linguistics. LEC

LING 470 Language and Society in Africa (3). NW H/W Examines issues and problems associated with language use in sub-Saharan Africa from a sociological perspective. Topics covered include an overview of the types of languages spoken on the continent: indigenous languages, colonial languages, pidgins and creoles, and Arabic as a religious language; problems associated with the politics of literacy and language planning; writing and standardization of indigenous languages; and the cultural and ideological dilemmas of language choice. (Same as AAAS 470.) Prerequisite: AAAS 103 or AAAS 305, LING 104, or LING 106, or consent of instructor. LEC

LING 483 Computational Linguistics (3). S A survey of computer-based approaches to the study of morphology and syntax. In addition to its relevance for basic linguistic research, computer-based syntactic analysis in the form of parsers and syntactic/string generators, provide model testers for the linguistic and analytical tools for the computer scientist concerned with language applications. When taught with LING 783, students at the 700 level will have different course requirements. Prerequisite: An introductory course in linguistics. LEC

LING 490 Independent Study (1-3). U A special research project or directed readings in an area of linguistics not covered in other courses. No more than 3 hours of LING 490 may be applied toward the requirements for the major. Prerequisite: Consent of instructor. IND

LING 491 Topics in Linguistics: ____ (1-3). H The content, prerequisites, and credits of this course will vary. May be repeated. IND

LING 492 Topics in Linguistics: ____ (1-3). S The content, prerequisites, and credits of this course will vary. May be repeated. (Distribution credit given for two or three hours only) Prerequisite: Consent of instructor. IND

LING 496 Honors Essay in Linguistics (1-3). H Individual directed research and preparation of an essay on a linguistic topic. Prerequisite: A grade-point average of 3.5 in linguistics and 3.25 in all courses, and consent of the major adviser. IND

LING 525 Introduction to Syntax (3). H An introduction to generative syntax with special attention to theory and method. The course will cover such topics as phrase structure, X-bar theory, pronoun reference and the lexicon. Prerequisite: An introductory course in linguistics. LEC

LING 539 The Acquisition of Morphosyntax (3). A second semester course in child language that explores the acquisition of morphology, syntax, and the ways in which morphology and syntax interact in linguistic theory and language development. Topics covered in the course include agreement, case, null subjects, question formation, pronoun binding, quantification, and control. Prerequisite: LING 425 or LING 525 or consent of instructor. LEC

LING 543 Language and Culture in Arabic-speaking Communities (3). NW H The course examines the links between structure, patterns of use, language choice, and language attitudes in the diglossic and bi-lingual Arabic-speaking communities. It also explores language as a reflector and creator of Arab culture (e.g. linguistic encoding of politeness, the Quranic text as the spoken and written word, the role of tropes in Arabic rhetoric). The topics for discussion range from the micro-level language choice to the macro-level issues of national language policies and planning within the domain of government and education across the Arab world. (Same as AAAS 543) LEC

LING 565 Native Mesoamerican Writing (3). H An introduction to the Indigenous writing of Mesoamerica, primarily Epi-Olmec and Mayan hieroglyphic writing. The course will survey the languages of the cultures that originated writing in the New World, and demonstrate the methods being used to decipher Mesoamerican hieroglyphic writing. The connections between language, culture, and writing will be highlighted. Prerequisite: An introductory linguistics course. LEC

LING 570 The Structure of Japanese (3). H A detailed study of the phonological and grammatical structure of Japanese and the use of the language in social/cultural contexts. Primarily for students who want a linguistic knowledge of the language rather than a practical command of it. (Same as EALC 570.) LEC

LING 572 Structure of Chinese (3). H A detailed study of the phonological and grammatical structure of Chinese and the interactions between language and culture. Depending on student interests, a unit on the pedagogy of teaching Chinese as a foreign language may also be included. Primarily for students who want a linguistic knowledge of the language rather than a practical command of it. (Same as EALC 572.) LEC

LING 575 The Structure of: ____ (3). S A detailed study of a language, including its phonological, morphological, syntactic and semantic characteristics. The course provides students with a linguistic

knowledge of the language rather than a practical command of it. Prerequisite: A course in linguistics. LEC

LING 700 Introduction to Linguistic Science (3).

LING 705 Phonetics I (3).

LING 707 Phonetics II (3).

LING 708 Problems in Linguistic Analysis (3).

LING 709 Introduction to Language Acquisition (3).

LING 712 Phonology I (3).

LING 714 Phonology II (3).

LING 715 Linguistics and Second Language Acquisition (3).

LING 716 Linguistics and Second Language Acquisition II (3).

LING 720 Research Methods in Linguistics (3).

LING 722 Grammar: A Functional and Typological Approach (3).

LING 725 Syntax I (3).

LING 726 Syntax II (3).

LING 730 Linguistics in Anthropology (3).

LING 731 Semantics I (3).

LING 735 Psycholinguistics (3).

LING 737 Topics in Psycholinguistics (3).

LING 739 The Acquisition of Morphosyntax (3).

LING 740 Linguistic Data Processing (3).

LING 741 Field Methods in Linguistic Description (3).

LING 747 North American Indian Languages (3).

LING 748 Language Contact (3).

LING 749 Linguistics and Ethnolinguistics of China and Central Asia: ____ (3).

LING 750 Comparative and Historical Linguistics (3).

LING 753 The Indo-European Language Family (3).

LING 782 Research Methods in Child Language (3).

LING 783 Computational Linguistics (3).

LING 791 Topics in Linguistics: ____ (1-3).

LING 794 Proseminar (3).

LING 799 Proseminar in Child Language (2).

Literature, Language, and Writing

The B.A. and B.G.S. degrees in literature, language, and writing offered on the KU Edwards Campus are described under English in this chapter of the catalog.

Mathematics

Chair: Jack Porter
Snow Hall, 1460 Jayhawk Blvd., Room 405
Lawrence, KS 66045-7523
(785) 864-3651, www.math.ku.edu

Degrees offered: B.A., B.S., M.A., Ph.D.

The department offers course work for students interested in mathematics as part of a liberal education, for students who take mathematics as a tool in another field, for prospective secondary school teachers, and for majors in mathematics.

Courses for Nonmajors

Students interested in mathematics as part of a background in the liberal arts should enroll in MATH 115, MATH 121, MATH 105, MATH 106, or MATH 365, and additional courses according to their interests. Students preparing to use mathematics as a tool in another field should consult recommendations and requirements of their schools or departments. Prospective secondary school mathematics teachers should complete the calculus sequence (MATH 223 and MATH 290 or MATH 143) and consult the School of Education chapter of this catalog for further requirements.

MATH 002 is considered a developmental course by all KU schools and is not counted toward the minimum number of hours required for graduation. The College

of Liberal Arts and Sciences and the Schools of Business, Education, Engineering, Fine Arts, Journalism and Mass Communications, and Social Welfare count the course as credit earned but increase the minimum number of hours for graduation by 3 hours if a student completes it. The Schools of Architecture and Urban Design and Pharmacy do not add the credit for this course into the total hours earned toward graduation.

Placement

Students who have not completed a course in mathematics since graduation from high school should consult the Placement Table for Initial Enrollment in Mathematics in Liberal Arts and Sciences: General Requirements. Students also may take the Mathematics Placement Test, given several times each year by the department, to determine their proper initial placement in mathematics courses. Students who have taken a course in mathematics since graduation from high school should enroll according to the credit shown on their transcripts and the stated prerequisites for the courses listed in this catalog.

Majors

First- and Second-year Preparation. Prospective majors should complete MATH 223 and MATH 290 or MATH 143 and one more advanced course by the end of the second year.

Requirements for the B.A. Major. Requirements include MATH 223 and MATH 290 or MATH 143 and in addition, 15 hours in junior/senior mathematics courses (excluding MATH 365 and MATH 409). The 15 additional hours should include MATH 500 or MATH 765 and MATH 590 or MATH 790 and *one* of the following two-semester sequences:

MATH 500 and MATH 646	MATH 627 and MATH 628
MATH 526 and ¹ MATH 605	MATH 646 and MATH 647
MATH 526 and ¹ MATH 611	MATH 647 and MATH 648
¹ MATH 530 and ¹ MATH 531	¹ MATH 660 and ¹ MATH 661
¹ MATH 540 and MATH 558	¹ MATH 724 and ¹ MATH 725
MATH 558 and ¹ MATH 601	MATH 765 and MATH 766
MATH 581 and ¹ MATH 591	MATH 781 and MATH 782
MATH 590 and MATH 790	MATH 790 and MATH 791

Requirements for the B.S. Degree. The B.S. in mathematics offers more extensive training in mathematics and its applications than is possible in the B.A. curriculum. The requirements for the B.S. in mathematics allow a great deal of flexibility in choice of courses and areas of concentration. Students should plan their programs carefully to meet individual interests and goals and carefully check the prerequisites for all courses in their programs. Students should declare the B.S. major with the department to be assigned an adviser. Consult with an adviser early, preferably during the first academic year.

The degree of B.S. in mathematics is granted upon successful completion of a 124-hour prescribed curriculum, as follows:

I. Mathematics Courses

Preparation (usually 18 hours):

Calculus through MATH 122 or MATH 142	10-11
MATH 223 and MATH 290 or MATH 143	5
MATH 220 or MATH 320 or MATH 321	3

⁴Mathematics Distribution (12-13 hours)

MATH 500 or MATH 765	3
MATH 558 or MATH 791	3
MATH 590 or MATH 790	3
MATH 526, MATH 628, MATH 728, or DSCI 301	3-4

²Mathematics Concentration (12 hours)

⁵One sequence chosen from the following List A: 6
 MATH 627 and MATH 628 MATH 781 and MATH 782
¹MATH 660 and ¹MATH 661 MATH 790 and MATH 791
 MATH 765 and MATH 766

³A second sequence chosen either from List A above or from the following List B: 6
 MATH 500 and MATH 646 MATH 581 and ¹MATH 591
 MATH 526 and ¹MATH 605 MATH 590 and MATH 790
 MATH 526 and ¹MATH 611 MATH 646 and MATH 647
¹MATH 530 and ¹MATH 531 MATH 647 and MATH 648
¹MATH 540 and MATH 558 ¹MATH 724 and ¹MATH 725
 MATH 558 and ¹MATH 601

Mathematics Electives: additional courses if needed to complete a total of 24 hours in mathematics courses numbered 450 or above .. 0-12

¹These courses normally are taught only every second year.

²Courses used to satisfy the mathematics distribution requirement also may be used to satisfy the mathematics concentration requirement.

³Students who plan to attend graduate school in the mathematical sciences are encouraged to take two sequences from list A.

⁴More advanced courses in the same areas may be substituted.

⁵These sequences can be replaced by an analogous high-level sequence.

II. Concentration in Applied Mathematics and Related Fields.

Three courses, totaling at least 8 hours, that make significant use of mathematics. At least two courses must be in the same area.

Note: Many of these courses have prerequisites.

Statistics: ECON 817, ECON 818, MATH 605, MATH 611, MATH 624, or any statistics or topics-in-statistics course taught by the mathematics department that is numbered 600 or above and has a calculus-based statistics course as a prerequisite, provided the course is not used to satisfy the requirements in Part I.

Management Science and Operations Management: DSCI 310, DSCI 410, DSCI 415

Finance: FIN 310, FIN 410, FIN 415, FIN 420, FIN 425

Economics: ECON 590, ECON 700, ECON 701, ECON 715, ECON 716

Biology: BIOL 350, BIOL 412, BIOL 743, BIOL 747

(Students who choose courses from this area must select MATH 627-MATH 628 as one of the sequences used to satisfy the mathematics concentration requirement.)

Physics and Astronomy: PHSX 313, PHSX 521, PHSX 531, PHSX 611, PHSX 621, PHSX 631, PHSX 655, PHSX 671, PHSX 741, ASTR 591, ASTR 592, ASTR 691

Chemistry: CHEM 516, CHEM 646, CHEM 648

Engineering: Aerospace Engineering: AE 345, AE 445, AE 507,

AE 545, AE 550, AE 551, AE 750

Chemical and Petroleum Engineering: C&PE 211, C&PE 511, C&PE 521, C&PE 523

Civil Engineering: CE 201, CE 300, CE 301, CE 311, CE 461, CE 704

Electrical Engineering and Computer Science: EECS 211, EECS 220, EECS 360, EECS 420, EECS 444, EECS 510, EECS 560, EECS 562, EECS 638, EECS 649, EECS 660, EECS 662, EECS 672

Mechanical Engineering: ME 201, ME 311, ME 312, ME 321, ME 508, ME 520, ME 612, ME 682, ME 740

III. General Requirements (minimum of 46 hours)

English 9

Oral Communication and Logic 3

Western Civilization 4-6

Computer Science: EECS 138 or EECS 168 3

Natural Science: One course with laboratory (4-5 hours) and one additional course (3-5 hours) in biological science, earth science, or physical science 7-10

Humanities and Foreign Languages: four courses totaling 12 hours or more, at least two courses (6 hours) of which must be in the humanities 12

Social Sciences: two courses totaling 6 hours or more 6

The general requirements in English, oral communication and logic, and Western civilization are the same as those for the B.A. degree. For purposes of the humanities and foreign language requirement, humanities courses are those with a course designation of H. Social sciences courses are designated S. Acceptable natural science courses are designated NB, NE, or NP.

No foreign language courses are required. However, students are strongly encouraged to take at least two courses in a foreign language. Students who plan to attend graduate school are urged to take courses in French, German, or Russian.

Summary of Hours Required for B.S. (approximate)

Total hours required in mathematics	42
Total hours of required courses	94-97
Free electives	27-30
Total hours required for degree	124

The following courses do not count toward the 50-hour maximum in the major: MATH 002, MATH 101, MATH 103, MATH 104, MATH 105, MATH 106, MATH 109, MATH 110, MATH 111, MATH 115, MATH 116, MATH 118, MATH 121, MATH 122, MATH 141, MATH 142, and MATH 365.

For placement in mathematics courses see the Placement Table for Initial Enrollment in Mathematics, page 59.

A concentration in applied mathematics and related fields is available.

Suggested Tracks in Mathematics. Many students have strong interests in particular areas. The department has created three informal tracks within the B.S. program: a statistics track, an applied mathematics track, and a track in pure mathematics. Details are available from the department office. These tracks are advisory only. Students without strong interests in one of these areas are encouraged to put together a broad program within the B.S. degree.

Requirements for the Minor. The minor requires 18 hours of mathematics courses, including the following:

MATH 122 or MATH 142

12 hours of mathematics courses numbered 300 and above, excluding MATH 365

A 2.0 grade-point average in all mathematics courses is required.

Preparation for Graduate Study. Prospective graduate students should complete MATH 765, MATH 766, MATH 790, and MATH 791 and three or four additional junior/senior-level courses in mathematics. In satisfying the College foreign language requirement, students should consider that candidates for the Ph.D. normally must pass a reading examination in two of these three languages: French, German, Russian.

Honors. The student must satisfy College requirements for honors, attain a grade-point average of 3.5 in all mathematics courses taken (numbered 500 or above), and complete MATH 765, MATH 766, MATH 790, MATH 791 with a grade no lower than B in any of these courses. The student must make a satisfactory oral presentation to the department, preferably on a topic related to his or her mathematics course work. It is suggested that the oral presentation be made in the second semester of the senior year. Preparation should include enrollment in MATH 699 Directed Reading (for possibly 1 credit hour). Make arrangements with a mathematics adviser in the beginning of the semester in which the presentation is to be made.

● Mathematics Courses

MATH 002 Intermediate Mathematics (3). U Mathematics (primarily algebra) preparatory to MATH 101. Qualification: Two years of high school college preparatory mathematics, algebra and geometry, and a score of 16 or more on ACT mathematics; or a qualifying score on the mathematics placement test. MATH 002 is the lowest level mathematics course offered at the University of Kansas. Students not prepared for MATH 101 will be permitted to enroll in MATH 002. However, before enrolling in MATH 002, such students are encouraged to prepare by self-study or by completing a beginning algebra course in high school, community college, or correspondence study. LEC

MATH 101 Algebra (3). U Coordinate systems, functions and their graphs; linear, quadratic, general polynomial, exponential, and logarithmic functions; equations and inequalities. Not open to students with credit in MATH 104. Prerequisite: MATH 002, or two years of high school algebra and a score of 22 or higher on ACT mathematics, or a qualifying score on the mathematics placement test. LEC

MATH 103 Trigonometry (2). U The circular functions and their applications. Not open to students with credit in MATH 104. May not be used to fulfill the College mathematics requirement. Prerequisite: MATH 101, or two years of high school algebra and a score of 28 or higher on enhanced ACT mathematics, or a qualifying score on the mathematics placement test. LEC

MATH 104 Precalculus Mathematics (5). U An introduction to the elementary functions (polynomial, rational, exponential, logarithmic, and trigonometric) and their properties. Intended primarily for students intending to enroll in MATH 121. Open for only two hours credit for students with credit in MATH 101. Not open to students with credit in MATH 103. Prerequisite: MATH 002, or two years of high school algebra and a score of 22 or higher on ACT mathematics, or a qualifying score on the mathematics placement test. LEC

MATH 105 Introduction to Topics in Mathematics (3). N This course has two purposes. First, to provide the student with some experience and insight into several areas of mathematics not normally covered in elementary courses. Typical topics which may be covered are number theory, geometries, introductory calculus, introductory probability and statistics. Second, to provide the student with some skill in handling abstract mathematical concepts. The material will develop dually the intuitive and axiomatic approach. A high degree of manipulative skill is not required for this course. Prerequisite: MATH 101 or MATH 104, or two

years of high school algebra and a score of 26 or higher on ACT mathematics, or a qualifying score on the mathematics placement test. LEC

MATH 106 Introduction to Finite Mathematics (3). N An introduction to several areas in discrete mathematics and to their applications to contemporary life. Topics covered will include the collection and description of data, including an introduction to elementary probability and statistics; and the analysis of properties of size and shape, including measurement, symmetry, relationships, and patterns. Additional material will include topics chosen from the areas of management science, social choice, and decision making. Prerequisite: MATH 101 or MATH 104, or two years of high school algebra and a score of 26 or more on ACT mathematics, or a qualifying score on the mathematics placement test. LEC

MATH 109 Mathematics for Elementary School Teachers I (3). U This course is designed to give the prospective elementary school teacher an overview of several components of the elementary school mathematics curriculum, including number systems, estimation, inequalities and order, sequences and patterns, sets, and relations and functions. The class meets each week for three one-hour instruction sessions and one two-hour laboratory session. This course may not be used to satisfy the College mathematics requirement. Prerequisite: MATH 101 or equivalent placement. LEC

MATH 110 Mathematics for Elementary School Teachers II (3). U Continuation of MATH 109, including geometry (including transformations) and elementary probability and statistics. Class meets each week for three one-hour instruction sessions and one two-hour laboratory session. This course does not serve as a prerequisite for any mathematics course. It may not be used to satisfy the College mathematics requirement. Prerequisite: MATH 109. LEC

MATH 111 Matrix Algebra, Probability, and Statistics (3). NM N Introduction to topics in matrix algebra, probability, and statistics. Topics will include matrix operations, the use of matrices to solve systems of linear equations, elementary data analysis, elementary statistical procedures, sample spaces and probability measures, random variables, probability models, links between probability and statistics, and applications. Prerequisite: MATH 101 or MATH 104, or two years of high school algebra and a score of 26 or higher on the ACT mathematics, or a qualifying score on the mathematics placement test. LEC

MATH 115 Calculus I (3). NM N Elementary differential and integral calculus, with applications in management and the biological sciences. Not open to students with credit in MATH 121. Prerequisite: MATH 101 or MATH 104, or two years of high school algebra and a score of 26 or higher on ACT mathematics, or a qualifying score on the mathematics placement test. LEC

MATH 116 Calculus II (3). N Continuation of MATH 115 including exponential, logarithmic, and trigonometric functions, techniques of integration, and the calculus of functions of several variables. Not open to students with credit in MATH 122 or MATH 118. Prerequisite: MATH 115, plus a course in trigonometry, or MATH 121. MATH 103 may be taken concurrently. LEC

MATH 118 Trigonometry and Calculus (3-5). N A course combining the material of MATH 103 and MATH 116. Open for only three hours credit to students with credit in MATH 103 or MATH 104, or five hours credit for students who do not have credit in MATH 103 or MATH 104. Not open for credit for students with credit in MATH 116. Prerequisite: MATH 115. LEC

MATH 121 Calculus I (5). NM N Differentiation and integration of algebraic and trigonometric functions. Applications to physical sciences and engineering. Open for only two hours credit to students with credit in MATH 115. Prerequisite: MATH 104; or MATH 103; or three years of college preparatory mathematics including trigonometry and a score of 28 or higher on ACT mathematics; or a qualifying score on the mathematics placement test. LEC

MATH 122 Calculus II (5). N Continuation of MATH 121, emphasis on applications. Introduction to partial differentiation and multiple integration. Open only for three hours credit to students with credit in both MATH 121 and MATH 116. Prerequisite: MATH 121 or MATH 116. LEC

MATH 141 Calculus I, Honors (5). NM N Differential and integral calculus and applications. Prerequisite: Three years of college preparatory mathematics including trigonometry, plus either (1) a score of 34 or more on ACT mathematics and a cumulative high school grade-point average of at least 3.5, or (2) a score of 32 or more on ACT mathematics and a cumulative high school grade-point average of at least 3.7. LEC

MATH 142 Calculus II, Honors (5). N Transcendental functions, methods of integration, parametric equations, vector algebra and its applications to analytic geometry. Introduction to partial derivatives and multiple integration. Prerequisite: MATH 121, or equivalent, and invitation of the Department of Mathematics. LEC

MATH 143 Linear Algebra and Multivariable Calculus, Honors (5). N Linear spaces, linear transformations and matrices, determinants, eigenvalues and eigenvectors, differential calculus of vector-valued functions, multiple integrals, line integrals and surface integrals. Infinite series. Prerequisite: MATH 122 or MATH 142, or equivalent, and invitation of the Department of Mathematics. LEC

MATH 197 Mathematical Workshops: ____ (1-3). N Offered to provide opportunities for deeper understanding of freshman-sophomore mathematics through interactive learning. Topics will vary. May be repeated for additional credit. Prerequisite: Variable. LAB

**Since 1992, 15
KU mathematics
majors have won
Goldwater
scholarships, and
five have won
Javits, Mellon, or
National Science
Foundation
Fellowships.**

**Philosophy offers
courses in applied
ethics, ethics,
feminism, logic,
and the
philosophy of
science to fit the
needs and
interests of
nonmajors.**

MATH 220 Applied Differential Equations (3). N Linear ordinary differential equations, laplace transforms, systems of equations, and applications. Not open to those who have taken MATH 320. Prerequisite: MATH 122 or MATH 142 or equivalent. LEC

MATH 223 Vector Calculus (3). N Multivariable calculus, multiple integration, and vector calculus. Prerequisite: MATH 122 or MATH 142 or equivalent. LEC

MATH 280 Scientific Computing with Mathematica (3). N Introduces the integrated work environment provided by Mathematica and explores some of the most fundamental and significant ideas in scientific computing. Among the major topics covered are: Computational properties of numbers, significant digits and interval arithmetic, accumulation of errors and round-off errors, symbolic computation, scientific visualization, symbolic expression manipulation, and various programming styles (procedural, functional, rule-based). LEC

MATH 290 Elementary Linear Algebra (2). N Systems of linear equations, matrices, vector spaces, linear transformations, and applications. Not open to those who have taken MATH 590. Prerequisite: MATH 122 or MATH 142 or equivalent. LEC

MATH 299 Directed Reading (1-5). N Directed reading on a topic chosen by the student with the advice of an instructor. May be repeated for additional credit. Consent of the department required for enrollment. IND

MATH 320 Elementary Differential Equations (3). N Linear ordinary differential equations, series solutions. Laplace transforms. Systems of equations. Not open to those who have taken MATH 220. Prerequisite: MATH 223 and MATH 290, or MATH 143. LEC

MATH 321 Differential Equations, Honors (3). N Linear differential equations with applications, Wronskian, power series solution, systems of differential equations. Prerequisite: MATH 223 and MATH 290 or MATH 143, or equivalent and invitation of the Department of Mathematics. LEC

MATH 365 Elementary Statistics (3). NM N Elementary descriptive statistics of a sample of measurements; probability; the binomial, Poisson, and normal distributions, populations and sampling from populations; simple problems of statistical inference. May not be counted for junior-senior credit toward a major in mathematics. Not open to students with credit in BUS 368, BIOL 570, MATH 465, MATH 526, or MATH 628. Prerequisite: MATH 101, MATH 104, or MATH 111. LEC

MATH 409 Topics in Mathematics for Secondary and Middle School Teachers (3). N Topics from euclidean, non-euclidean, and transformation geometry, and from history of mathematics are selected to give breadth to the mathematical background of secondary and middle school teachers. May not be counted for junior-senior credit towards a major in mathematics. Prerequisite: MATH 115 or MATH 121. LEC

MATH 450 Mathematical Foundations for Computer Science (3). N A rigorous introduction to those areas of discrete mathematics useful in computer science and related disciplines. Topics to be covered include: sets, relations, graphs, networks, boolean algebras, algorithms, finite state machines, and context-free languages. Prerequisite: MATH 122. LEC

MATH 470 Problem Solving (3). N An introduction to the general methods of solving mathematical problems. Particular techniques such as specialization, generalization, contradiction, and induction will be presented. Topics presented may vary from semester to semester. Prerequisite: MATH 122 or equivalent or concurrent enrollment in MATH 122. LEC

MATH 500 Intermediate Analysis (3). N A careful formulation of convergence and limits of sequences and functions; continuity and properties of continuous functions; differentiation; the Riemann integral; mean-value theorems and the fundamental theorem of calculus. Not open to students with credit in MATH 765. Prerequisite: MATH 223 and MATH 290, or MATH 143. LEC

MATH 510 Introduction to the Theory of Computing (3). N Finite state automata and regular expressions. Context-free grammars and push-down automata. Turing machines. Models of computable functions and undecidable problems. The course emphasis is on the theory of computability, especially on showing limits of computation. (Same as EECS 510.) Prerequisite: EECS 210 and upper-level EECS eligibility. LEC

MATH 520 Intermediate Logic (3). N Formal systems, propositional and predicate logic, completeness theorem, effective procedures, definability in number theory, Godel's incompleteness theorem. Prerequisite: MATH 450, or MATH 588, or MATH 590. LEC

MATH 526 Applied Mathematical Statistics I (3). N A first course in statistics for students with the techniques of calculus at their disposal. The following topics are studied with illustrations and problems drawn from various fields of applications: basic notions of probability and probability distributions; classical estimation and testing procedures for one and two sample problems; chi-square test. Not open to those with credit in MATH 628 or DSCI 301. Prerequisite: MATH 122 or MATH 116. LEC

MATH 530 Mathematical Models I (3). N An introduction to mathematical models useful in a large variety of scientific and technical endeavors. Topics include: model construction, Markov chain models, models for linear optimization, graphs as models, and game theory. Prerequisite: MATH 223 and MATH 290, or MATH 143. LEC

MATH 531 Mathematical Models II (3). N A continuation of MATH 530. Topics include: deterministic and stochastic models of growth

processes, growth models for epidemics, rumors and queues; parameter estimation; and methods of comparing models. Prerequisite: MATH 530 and some probability. LEC

MATH 540 Elementary Number Theory (3). N Divisibility, primes and their distribution, the Euclidean algorithm, perfect numbers, Fermat's theorem, Diophantine equations, applications to cryptography. Prerequisite: MATH 122 or consent of instructor. LEC

MATH 542 Vector Analysis (2). N Vector algebra; vector and scalar fields; line and surface integrals; theorems of Gauss, Green, and Stokes. Curvilinear coordinates. Applications. Introduction to tensor analysis. Not open to those with credit in MATH 143. Prerequisite: MATH 223 and MATH 290. LEC

MATH 558 Introductory Modern Algebra (3). N Development of the number systems. Polynomials. Introduction to abstract number systems such as groups and fields. Not open to students with credit in MATH 791. Prerequisite: MATH 290. LEC

MATH 559 Modern Geometries (3). N Selected topics in Euclidean geometry. Synthetic and analytic projective geometry; duality, Desargues' theorem, perspectives, conics. Non-Euclidean and metric projective geometries. Prerequisite: MATH 122. LEC

MATH 562 Evolution of Mathematical Thought (3). N Development of selected topics from the mainstream of mathematics. Prerequisite: Senior standing and at least nine hours credit in mathematics courses numbered 450 or above. LEC

MATH 570 Undergraduate Honor Seminar (3). N A seminar for undergraduate students with a strong record in mathematics. Topics may vary. May not be taken twice for credit towards a major in mathematics. Prerequisite: MATH 143 or MATH 321 or permission of instructor. LEC

MATH 581 Numerical Methods (3). N An introduction to numerical methods and their application to engineering and science problems. Applied treatment of elementary algorithms selected from the subject areas: finding roots of a single nonlinear equation, numerical differentiation and integration, numerical solution of ordinary differential equations. Emphasis on implementing numerical algorithms using the computer. Not open to students with credit in MATH 781 or MATH 782. Prerequisite: MATH 220 and MATH 290, or MATH 320. LEC

MATH 590 Linear Algebra (3). N Vector spaces, linear transformations, and matrices. Canonical forms. Determinants. Hermitian, unitary and normal transformations. Not open to students with credit in MATH 792. Prerequisite: MATH 223 and MATH 290 or equivalent, or MATH 143. LEC

MATH 591 Applied Numerical Linear Algebra (3). N An introduction to numerical linear algebra. Possible topics include: applied canonical forms, matrix factorizations, perturbation theory, systems of linear equations, linear least squares, singular value decomposition, algebraic eigenvalue problems, matrix functions, and the use of computational software. Not open to students with credit in MATH 780 or MATH 782. Prerequisite: MATH 290. Recommended: EECS 138 or equivalent experience. LEC

MATH 596 Special Topics: ____ (1-3). N Arranged as needed to present appropriate material to groups of students. May be repeated for additional credit. Prerequisite: Variable. LEC

MATH 601 Algebraic Coding Theory (3). N An introduction to error correcting codes. Included are: linear codes, cyclic codes, BCH codes, and convolutional codes. Prerequisite: MATH 290. LEC

MATH 605 Applied Regression Analysis (3). N The matrix approach to regression. Weighted least squares, transformations, examination of residuals, model selection, and analysis of variance. Prerequisite: One calculus-based statistics course. LEC

MATH 611 Time Series Analysis (3). N An introduction to the theory and computational techniques in time series analysis. Descriptive techniques: trends, seasonality, autocorrelations. Time series models: autoregressive, moving average, ARIMA models; model specification and fitting, estimation, testing, residual analysis, forecasting. Stationary processes in the frequency domain: Fourier methods and the spectral density, periodograms, smoothing, spectral window. Prerequisite: MATH 122 and a calculus based statistics course. LEC

MATH 624 Discrete Probability (3). N Theory and applications of discrete probability models. Elementary combinatorial analysis, random walks, urn models, occupancy problems, and the binomial and Poisson distributions. Prerequisite: MATH 223 and MATH 290, or MATH 143. LEC

MATH 627 Probability (3). N Introduction to mathematical probability; combinatorial analysis; the binomial, Poisson, and normal distributions; limit theorems; laws of large numbers. Prerequisite: MATH 223 and MATH 290 or equivalent, or MATH 143. LEC

MATH 628 Mathematical Theory of Statistics (3). N An introduction to sampling theory and statistical inference; special distributions; and other topics. Prerequisite: MATH 627. LEC

MATH 631 Operations Research (3). N An introduction to commonly applied techniques. Topics include linear programming, duality and sensitivity analysis, the transportation problem, networks, decision and game theory, inventory models and queueing systems. Prerequisite: A calculus-based statistics course or permission of instructor. LEC

MATH 646 Complex Variable and Applications (3). N Analytic functions of a complex variable, infinite series in the complex plane, theory of residues, conformal mapping and applications. Prerequisite: MATH 223. LEC

MATH 647 Applied Partial Differential Equations (3). N Boundary value problems; topics on partial differentiation; theory of characteristic curves; partial differential equations of mathematical physics. Prerequisite: MATH 220, MATH 223 and MATH 290; or MATH 320. LEC

MATH 648 Calculus of Variations and Integral Equations (3). N Topics in the calculus of variations, integral equations, and applications. Prerequisite: MATH 220, MATH 223 and MATH 290; or MATH 320. LEC

MATH 660 Geometry I (3). N An introduction to modern geometry. Differential geometry of curves and surfaces, the topological classification of closed surfaces, dynamical systems, and knots and their polynomials. Other topics as time permits. Prerequisite: MATH 223 and MATH 290, or equivalent, or MATH 143. LEC

MATH 661 Geometry II (3). N Continuation of Math 660. Prerequisite: MATH 660 or permission of instructor. LEC

MATH 696 Special Topics: ____ (1-3). N Arranged as needed to present appropriate material to groups of students. May be repeated for additional credit. Prerequisite: Variable. LEC

MATH 699 Directed Reading (1-3). N Directed reading on a topic chosen by the student with the advice of an instructor. May be repeated for additional credit. Consent of the department required for enrollment. IND

MATH 701 Topics in Mathematics for Teachers: ____ (1-6).

MATH 715 Sampling Techniques (3).

MATH 717 Nonparametric Statistics (3).

MATH 722 Mathematical Logic (3).

MATH 724 Combinatorial Mathematics (3).

MATH 725 Graph Theory (3).

MATH 727 Probability Theory (3).

MATH 728 Statistical Theory (3).

MATH 735 Introduction to Optimal Control Theory (3).

MATH 740 Number Theory (3).

MATH 750 Stochastic Adaptive Control (3).

MATH 765 Introduction to the Theory of Functions I (3).

MATH 766 Introduction to the Theory of Functions II (3).

MATH 780 Numerical Analysis of Linear Systems (3).

MATH 781 Numerical Analysis I (3).

MATH 782 Numerical Analysis II (3).

MATH 783 Applied Numerical Methods for Partial Differential Equations (3).

MATH 790 Linear Algebra II (3).

MATH 791 Modern Algebra I (3).

MATH 792 Modern Algebra II (3).

MATH 796 Special Topics: ____ (1-3).

MATH 799 Directed Readings (1-3).

Medical Professions

See Premedical Professions in this chapter of the catalog.

Meteorology

See Atmospheric Science.

Microbiology

B.A. and B.S. degrees in microbiology are offered through Biological Sciences. See Biological Sciences.

Molecular Biosciences

The B.S. degree in molecular biosciences offered on the KU Edwards Campus is described under Biological Sciences in this chapter of the catalog. Students also may concentrate in molecular biology by seeking a B.A. degree in biochemistry, biology, or microbiology or a B.S. degree in biochemistry, cell biology, or microbiology. See Biological Sciences.

Music

See the School of Fine Arts chapter of this catalog.

Norwegian

See Germanic Languages and Literatures.

Optometry (Preoptometry Study)

See Premedical Professions in this chapter of the catalog.

Organismal Biology

Students may concentrate in organismal biology by seeking a B.A. or B.S. degree in biology. See Biological Sciences.

Paleontology

Students may concentrate in paleontology by seeking a B.A. or B.S. degree in biology or a B.S. in geology. See Biological Sciences; see Geology.

Peace and Conflict Studies Minor

See Humanities and Western Civilization in this chapter.

Philosophy

Chair: Tom Tuozzo

Wescow Hall, 1445 Jayhawk Blvd., Room 3090

Lawrence, KS 66045-7590

(785) 864-3976, www.ku.edu/~philos

Degrees offered: B.A., B.G.S., M.A., M.A./J.D., Ph.D.

The department offers a wide range of courses in philosophy, both in the main systematic divisions of the subject and in its major historical periods. Philosophy courses are often suitable not only for majors but also for students whose main interests lie in other areas. Many philosophy courses satisfy requirements in other degree programs in the College and professional schools.

Oral Communication/Logic Requirement

PHIL 148 and PHIL 310 each meet the College's Oral Communication and Logic requirement for the B.A. and B.G.S. degrees.

Interdisciplinary Course Work

The department offers courses in applied ethics, ethics, feminism, logic, and the philosophy of science to fit the needs and interests of nonmajors. Many of these may be taken without prerequisites. The non-major may wish to supplement work in other fields or schools with a series of related courses in philosophy. Some suggested programs to be supplemented with this type of interdisciplinary course work are business, prelaw, premedicine, and engineering; classics, fine arts, art history, and literature; and natural sciences and mathematics. Lists of philosophy courses relating to these areas are available. Consult the director of undergraduate studies.

Majors

First- and Second-year Preparation. Although majors are not required to take courses in philosophy in their first two years, the department recommends that they do so. PHIL 288 and PHIL 292 are required and

are prerequisites for much upper-division work. PHIL 310 is also a prerequisite for much upper-division work and should be taken early. Prospective majors should consult the department early to plan their course work.

Requirements for the B.A. or B.G.S. Major. Philosophy majors must take at least 27 hours of course work in philosophy. At least 12 of these hours must be in courses numbered 500 or above. The following courses must be included:

1. **History of Philosophy** (6 hours)
 - PHIL 288 Ancient Philosophy 3
 - PHIL 292 Modern Philosophy from Descartes to Kant 3
2. **Symbolic Logic** (3 hours)
 - One of the following: 3
 - PHIL 310 Introduction to Symbolic Logic (3)
 - PHIL 610 Symbolic Logic (3)
3. **Value Theory** (3 hours)
 - One of the following: 3
 - PHIL 555 Justice and Economic Systems (3)
 - PHIL 662 Aesthetics (3)
 - PHIL 668 Political Philosophy (3)
 - PHIL 670 Contemporary Ethical Theory (3)
 - PHIL 672 History of Ethics (3)
4. **Metaphysics or Theory of Knowledge or Philosophy of Language or Philosophy of Mind** (3 hours)
 - One of the following: 3
 - PHIL 638 Philosophy of Language (3)
 - PHIL 648 Theory of Knowledge (3)
 - PHIL 650 Metaphysics (3)
 - PHIL 654 Philosophy of Mind (3)
5. **Nineteenth-/Twentieth-century Philosophy** (6 hours)
 - PHIL 388 Analytic Philosophy: Frege to Quine 3
 - One course from those numbered PHIL 560-592 3

Requirements for the Minor. Students must complete 18 hours of philosophy courses, of which 12 must be in courses numbered 300 or above, with 9 of these 12 having been taken at KU. PHIL 288 and especially PHIL 292 are strongly recommended.

Honors. To graduate with departmental honors, students must satisfy the requirements stated above, and must take 6 additional hours in philosophy, for a total of 33 hours, including (1) an additional course numbered 500 or above for a total of at least 15 hours at that level and (2) PHIL 499 Senior Essay. A committee of three faculty members reads the finished essay, gives the candidate an oral examination over the essay, and determines whether it warrants honors. This committee must consist of the instructor in PHIL 499, the departmental honors coordinator, and a third member of the philosophy faculty. Honors are not awarded to anyone who receives a grade lower than B in PHIL 499, whose final grade-point average in philosophy is lower than 3.5, or whose final KU or cumulative grade-point average is lower than 3.25. To be eligible for departmental honors, students must file a declaration of intent with the departmental honors coordinator no later than enrollment for the final undergraduate semester.

The most important element in departmental honors is the honors essay. Once a student has determined the area in which he or she wishes to work, he or she should arrange to write the essay under the guidance of a faculty member with appropriate expertise. Ideally, this work should be completed during a single semester. However, students often find it difficult to complete the essay in one semester. Therefore, we recommend that the essay be begun in the semester before the one in which the student intends to graduate (typically, in the fall semester of the senior year).

The honors essay should be intermediate between a master's thesis and a term paper. It should normally

be at least 20 pages (6,000 words) long. It should go beyond mere exposition, whether by criticism or by comparison of different works. Interpretations of rare or difficult texts may occasionally be accepted.

● Philosophy Courses

PHIL 140 Introduction to Philosophy (3). HR H An introductory examination, based primarily on writings of major philosophers, of such central philosophical problems as religious belief, the mind and its place in nature, freedom and determinism, morality, and the nature and kinds of human knowledge. LEC

PHIL 141 Introduction to Philosophy, Honors (3). HR H An introductory examination, based primarily on writings of major philosophers, of such central philosophical problems as religious belief, the mind and its place in nature, freedom and determinism, morality, and the nature and kinds of human knowledge. Prerequisite: Open only to students in the University Honors Program or by consent of department. LEC

PHIL 148 Reason and Argument (3). H An introduction to the theory and practice of modern logical analysis. Special emphasis will be placed upon the logical appraisal of everyday arguments. LEC

PHIL 160 Introduction to Ethics (3). HR H An introductory study of the nature of morality and of philosophical bases for the assessment of actions, agents, and institutions. Special emphasis will be placed upon the views of such important philosophers as Aristotle, Hume, Kant, and Mill. Some attention will be paid to applications of moral theory to practice. LEC

PHIL 161 Introduction to Ethics, Honors (3). HR H An introductory study of the nature of morality and of philosophical bases for the assessment of actions, agents, and institutions. Special emphasis will be placed upon the views of such important philosophers as Aristotle, Hume, Kant, and Mill. Some attention will be paid to applications of moral theory to practice. Prerequisite: Open only to students in the University Honors Program or by consent of department. LEC

PHIL 180 Introduction to Social and Political Philosophy (3). HR H An introductory study, based primarily on classic philosophical texts, of such central issues as the justification of governmental authority, the social sources of power, the nature of a just distribution of social resources, competing conceptions of human nature, and the proper limits of governmental interference with individual liberty. LEC

PHIL 181 Introduction to Social and Political Philosophy, Honors (3). HR H An introductory study, based primarily on classic philosophical texts, of such central issues as the justification of governmental authority, the social sources of power, the nature of a just distribution of social resources, competing conceptions of human nature, and the proper limits of governmental interference with individual liberty. Prerequisite: Open only to students in the University Honors Program or by consent of department. LEC

PHIL 200 Study Abroad Topics in Philosophy: _____ (1-6). H This course is designed for the study of special topics in Philosophy. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

PHIL 288 Ancient Philosophy (3). HR H A survey of the thought of the principal philosophers of ancient Greece, with emphasis on the pre-Socratics, Plato, and Aristotle. Recommended for sophomores and above. LEC

PHIL 292 Modern Philosophy from Descartes to Kant (3). H A survey of the writings of such principal philosophers of the modern period as Descartes, Spinoza, Leibniz, Hobbes, Locke, Berkeley, Hume, and Kant. Recommended for sophomores and above. LEC

PHIL 310 Introduction to Symbolic Logic (3). H An introduction to the theory and practice of elementary symbolic logic. Special emphasis will be placed upon the logical analysis of mathematical proof and upon a proof of the consistency of elementary logic. LEC

PHIL 350 Philosophical Issues in Religion (3). H This course will consider, from a philosophical perspective, some of the problems in religion which arise in the development of "Natural Theology" broadly conceived. (Same as REL 380.) LEC

PHIL 360 Moral Issues in Business (3). H After a brief survey of techniques of moral argument and analysis, particular moral issues related to business will be discussed. These will include such topics as advertising, conflict of interest, personal and corporate responsibility, codes of conduct, private property, strikes, just wage, and the tension between moral ideals and business pressures. LEC

PHIL 365 Moral Issues in the Professions (3). H An analysis of the nature and justification of standards of professional conduct. Issues of professional behavior that concern more than one profession such as fidelity to a client's interests, candor, confidentiality, obligations to human research subjects, obligations to uphold professional standards, professional strikes, and affirmative action will be discussed. LEC

PHIL 370 Moral Issues in Medicine (3). H After a brief survey of techniques of moral argument and analysis, particular moral issues related to medicine will be discussed. The justification and limits of some rules of professional conduct that deal with such matters as confidentiality, truth-

The Timetable of Classes is the official listing of courses offered each semester, www.timetable.ku.edu.

The undergraduate philosophy club sponsors meetings and social events for students and faculty and publishes a journal of student papers, *Premise*.

telling, and protection of medical research subjects will be considered. Issues relating to death and dying in medicine such as abortion, euthanasia, and the refusal of life-saving medical therapy also will be discussed. LEC

PHIL 375 Moral Issues in Computer Technology (3). H After surveying the nature of ethics and morality and learning some standard techniques of moral argumentation, we shall examine such topics as: property and ownership rights in computer programs and software; privacy in computer entry and records; responsibility for computer use and failure; the "big brother" syndrome made possible by extensive personal data banks; censorship and the world-wide web; computer illiteracy and social displacement; and ethical limits to computer research. Prerequisite: EECS 133, EECS 168, EECS 258, or equivalent course. LEC

PHIL 380 Environmental Ethics (3). H After a brief survey of techniques of moral argument and analysis, particular moral issues related to the environment will be discussed. These will include such topics (one of which may be dealt with in depth) as animal rights, rights of future generations, wilderness preservation, population control, endangered species, and economics and public policy. Prerequisite: EVRN 148 or consent of instructor. LEC

PHIL 381 Feminism and Philosophy (3). H An examination of topics of philosophical interest that are important in the feminist movement such as the nature of sexism, the concept of sexual equality, the ethics of sexual behavior, the nature of love, feminist analyses of the value of marriage and family, the ethics of abortion, and justifications for preferential treatment of women. (Same as WS 381.) LEC

PHIL 388 Analytic Philosophy: Frege to Quine (3). H An introduction to the principal figures in the philosophical tradition that forms the background to contemporary investigations in analytic philosophy of language. Particular attention will be paid to Frege, Russell, Wittgenstein, and Quine. Prerequisite: PHIL 310 or equivalent, or PHIL 310 may be taken concurrently. LEC

PHIL 418 Introduction to Cognitive Science (3). S Examines the data and methodologies of the disciplines that comprise Cognitive Science, an inter-disciplinary approach to studying the mind and brain. Topics may include: consciousness, artificial intelligence, linguistics, education and instruction, neural networks, philosophy, psychology, anthropology, evolutionary theory, cognitive neuroscience, human-computer interaction, and robotics. (Same as LING 418, PSYC 418, and SPLH 418.) Prerequisite: Consent of instructor. LEC

PHIL 499 Senior Essay (3). H This course is required, in addition to regular major requirements, of those students wishing to work for departmental honors in Philosophy. Students wishing to enroll should first speak with the departmental adviser for majors. Prerequisite: Open to senior majors in Philosophy by consent of instructor. IND

PHIL 500 Studies in Philosophy: ____ (1-6). H (Topic, instructor, and specific prerequisite to be announced in Timetable.) A study of particular philosophical problems or thinkers not covered by other courses. The course may be offered concurrently by different instructors under different subtitles, and may, with the consent of the chair, be taken more than once if content varies. LEC

PHIL 504 Philosophy of Sex and Love (3). H A discussion of philosophical issues such as the relation between love, autonomy, and friendship; heterosexual and homosexual relationships; marriage and adultery; rape and sexual harassment; prostitution; and pornography. LEC

PHIL 506 Chinese Thought (3). NW H/W A survey of the principal modes of Chinese thought from their origins through the imperial period. Not open to students with credit in EALC 132. (Same as EALC 642 and HWC 524.) Prerequisite: Eastern Civilization course, or a course in Asian history, or a distribution course in Philosophy. LEC

PHIL 508 Early Greek Philosophy (3). H/W A study of the doctrines of Greek philosophy before Plato. Emphasis on the Pre-Socratic philosophers, with some attention paid to the Sophists and the Hippocratic corpus. (Same as GRK 508.) Prerequisite: PHIL 288 or GRK 301, or GRK 302 or GRK 303 and GRK 310 or GRK 312, or permission of instructor. LEC

PHIL 555 Justice and Economic Systems (3). H An examination of important representative theories of the justness of an economic system, with particular attention paid to such institutions as private property, a market economy, means and relationships of production, and principles of distribution to individuals. The theorists under consideration include Locke, Adam Smith, Marx and Engels, contemporary utilitarians, Rawls, and Nozick. Prerequisite: A course in ethics or an introductory course in economics or in business. LEC

PHIL 560 Nineteenth-century Philosophy (3). H The development of philosophy in the 19th century. Special attention will be paid to such major figures as Hegel, Kierkegaard, Marx, Nietzsche, and Mill. Prerequisite: PHIL 292. LEC

PHIL 562 Kierkegaard (3). H A study of the thought of Soren Kierkegaard through examination of some of his major writings. Some attention is given to his influence on the development of existentialist philosophies. Prerequisite: PHIL 288 or PHIL 292. LEC

PHIL 570 Nietzsche (3). H A study of Nietzsche's major writings and ideas, with some attention to his philosophical influence. Prerequisite: PHIL 288 or PHIL 292 or permission of instructor. LEC

PHIL 580 Marxism (3). H/W A philosophical study of the classical texts of Marxism and of their contemporary development. Prerequisite: A course in philosophy or a course in political science. LEC

PHIL 582 Existentialism (3). H/W A study of the main themes and leading philosophers of the existentialist movement. Prerequisite: Two courses in philosophy. LEC

PHIL 590 Phenomenology (3). H A study of the main themes and leading philosophers of the phenomenological movement. Prerequisite: PHIL 292. LEC

PHIL 592 Contemporary Continental Philosophy (3). H A study of hermeneutics, poststructuralism, and critical theory. Prerequisite: PHIL 292. LEC

PHIL 600 Readings in Philosophy: ____ (1-6). H Individual reading on topics not covered in course work. Prerequisite: Consent of instructor. IND

PHIL 605 The Philosophy of Plato (3). H A survey of the major works of Plato, with attention both to Plato's distinctive arguments and positions in the major areas of philosophy and to the distinctive literary form in which Plato presents his thinking. Prerequisite: PHIL 288. LEC

PHIL 607 The Philosophy of Aristotle (3). H A survey of the major works of Aristotle, with the aim of understanding Aristotle's distinctive formulations of central philosophical questions, the arguments he presents for his answers to those questions, and the systematic interconnections between his positions in the different areas of philosophy. Prerequisite: PHIL 288. LEC

PHIL 608 Hellenistic Philosophy (3). H Survey of Stoicism, Epicureanism, and Scepticism from their beginnings through the second century AD. Prerequisite: PHIL 288 and another course in philosophy. LEC

PHIL 610 Symbolic Logic (3). H Propositional calculus, predicate calculus, consistency, decidability of formal systems, the paradoxes and number concept will be covered. (Counts either toward meeting the humanities distribution requirement or toward fulfillment of the mathematics-logic requirement for pre-fall 1987 and B.G.S. general education requirements.) LEC

PHIL 611 Topics in Symbolic Logic: ____ (1-3). H This course is a workshop in any of a variety of topics in symbolic logic of special importance to contemporary analytic philosophy, such as modal logic, tense logic, axiomatic set theory, Goedel's theorems, model theory, etc. May be repeated for credit as topics vary. Prerequisite: PHIL 310. LEC

PHIL 620 Philosophy of Natural Science (3). H An examination of conceptual and foundational issues in the natural sciences. Topics may include the methodology of science (the nature and status of laws, the precise way in which experiment contributes to theory) and puzzles concerning the content of science (the status of space and time, the problematic nature of quantum mechanics). Prerequisite: PHIL 310 or PHIL 610, or permission of instructor. LEC

PHIL 622 Philosophy of Social Science (3). H A critical examination of the methods, concepts, and practices of the social sciences. Topics to be considered may include: theories of explanation, methodological individualism vs. holism, objectivity, the role of rationality, myth and the unconscious in the explanation of behavior, and the value neutrality of science. Prerequisite: One previous course in philosophy, or permission of instructor. LEC

PHIL 628 Philosophy of Logic (3). H A systematic treatment of logical theory. Different types of logic will be studied along with their philosophical assumptions, motivations, implications, and uses. Prerequisite: PHIL 310 or PHIL 610. LEC

PHIL 630 Philosophy of Mathematics (3). H An examination of varying conceptions of the role and status of mathematical arguments. Topics may include realism/anti-realism, the consequences of Goedel's Incompleteness Theorems, the role of mathematics in the sciences, and an examination of such historical thinkers as Plato, Frege, Russell, Wittgenstein, Goedel, and Hilbert. Prerequisite: PHIL 310 or PHIL 610, or permission of instructor. LEC

PHIL 638 Philosophy of Language (3). H An examination of the nature of language using the methods of analytic philosophy. Topics may include meaning, truth, reference, language and thought, and the nature of linguistic rules. Prerequisite: PHIL 388 or permission of instructor. LEC

PHIL 648 Theory of Knowledge (3). H An examination of the nature of knowledge. Topics may include the concept of knowledge, knowledge of the external world, induction, theories of justification, and scientific knowledge. Prerequisite: PHIL 288 and PHIL 292, PHIL 388 (which may be taken concurrently), or permission of instructor. LEC

PHIL 650 Metaphysics (3). H An examination of some of the central issues in metaphysics. Topics may include causation, the mind-body problem, free will and determinism, modality, natural kinds, the nature of properties, and personal identity. Prerequisite: PHIL 288 and PHIL 292, PHIL 388 (which may be taken concurrently), or permission of instructor. LEC

PHIL 654 Philosophy of Mind (3). H An examination of the nature of mind using the methods of analytic philosophy. Topics may include consciousness, perception, propositional attitudes, thought and language, action and intention, mind and body, the prospects for scientific psychology, and personal identity. Prerequisite: PHIL 388 or permission of instructor. LEC

PHIL 662 Aesthetics (3). H A study of some of the central themes and problems in aesthetics, such as the beautiful and the sublime in

nature and the arts. Prerequisite: Two courses in philosophy or graduate standing. LEC

PHIL 666 Rational Choice Theory (3). H This course is an introduction to the philosophical issues surrounding individual decision theory, game theory, and social choice theory. This includes issues of scientific theory selection, the nature of preference, the uses of games to model social interaction, and the ethical and political implications of Arrow's impossibility theorem. Formal techniques of modeling and proof, akin to those used in logic and mathematics, will be used in much of the course. Prerequisite: Two courses in economics, a philosophy course numbered 500 or above, or consent of instructor. LEC

PHIL 668 Political Philosophy (3). H A systematic analysis of the concepts of politics, with reference to representative political theories. Prerequisite: A course in philosophy and a course in political science. LEC

PHIL 670 Contemporary Ethical Theory (3). H An examination of some major moral philosophers and some important issues in ethical theory since the beginning of the twentieth century. Topics covered typically include intuitionism, emotivism, utilitarianism, virtue ethics, and the relationship between morality and rationality. Prerequisite: PHIL 160 or two courses in philosophy. LEC

PHIL 671 Feminist Theories in Ethics (3). H This course addresses the role (if any) that gender plays in constructing ethical theories. Topics include the impact of culture, affect, and the body on our understanding of gender differences and the importance of these differences for ethics. Prerequisite: PHIL 160 or PHIL 161, or two previous philosophy courses. LEC

PHIL 672 History of Ethics (3). H An examination of the central ethical texts of Aristotle, Hume, and Kant, supplemented by consideration of either Mill's Utilitarianism or Sidgwick's Methods of Ethics. Emphasis will be on development of exegetical as well as argumentative and analytic skills. Prerequisite: PHIL 160 or PHIL 161 or two previous philosophy courses. LEC

PHIL 674 Philosophy of Law (3). H An examination of the concept of law and of legal reasoning. In addition, the course may consider such topics as natural law, legal excuses, the relations between law and morality, civil disobedience, civil liberties, the concept of property. Prerequisite: Two courses in philosophy or one course in philosophy and one course in law or consent of instructor. LEC

PHIL 676 Medical Ethics: Life and Death Issues (3). H After a brief survey of techniques of moral argument and analysis especially as they pertain to the moral impermissibility of murder, particular moral and conceptual issues relating to death and dying in medical contexts will be addressed. Topics such as abortion, infanticide, suicide, euthanasia, the definition of death, and the right to refuse life-saving medical therapy will be included. Prerequisite: Two courses in biology or consent of instructor. LEC

PHIL 677 Medical Ethics: Professional Responsibilities (3). H After a brief survey of techniques of moral argument and analysis, particular moral issues related to the obligations of health care professionals and the rights of patients will be discussed. These will include such matters as confidentiality, truth-telling, informed consent, the ethics of research on human subjects, psychosurgery, the rights of the mentally ill, and the rights of the mentally retarded. Prerequisite: Two courses in biology or consent of instructor. LEC

PHIL 684 Main Currents of Russian Thought I (3). H/W A study of philosophical, theological and literary monuments designed to acquaint the student with the main cultural forces that have shaped Russian thought and manners. From the origins to Napoleonic times. (Same as SLAV 684.) LEC

PHIL 686 Main Currents of Russian Thought II (3). H/W A continuation of SLAV 684 from the age of Pushkin to the present. (Same as SLAV 686.) LEC

Physics

(Offered within the Department of Physics and Astronomy)

Chair: Stephen J. Sanders

Associate Chair: Philip S. Baringer

Malott Hall, 1251 Wescoe Hall Dr., Room 1082

Lawrence, KS 66045-7582

(785) 864-4626, www.physics.ku.edu

Degrees offered: B.A. and B.S. in Physics, B.S. in Engineering Physics, M.S. and Ph.D. in Physics

The physics curriculum includes course work for those who want a sound background in physics as part of their general education, for those who study physics as part of their training in other fields, and for those who plan to become professional physicists.

Courses for Nonmajors

PHSX 111 is primarily for students who need an introductory course or want to study physics as part of their general education. The department offers two sequences of quantitative elementary physics courses that include laboratory work. PHSX 211, PHSX 212, PHSX 313, and PHSX 316 are a calculus-based sequence for students in physical science, engineering, and mathematics. The other sequence, PHSX 114 and PHSX 115, covers the major fields of physics but does not use calculus. Students in biological sciences, health sciences, physical sciences, mathematics, engineering, and prospective elementary and secondary teachers should see appropriate chapters of this catalog and major advisers. Chemistry majors should note that PHSX 211 and PHSX 212 are prerequisites to advanced work in chemistry.

Majors

Students considering a major in physics (especially those considering a B.S.) should confer early with a departmental representative about selection of courses. The B.A. degree is appropriate for students who want a general education in physics with a broad cultural background. A B.A. with a concentration in computational physics is available. The B.S. is more specialized and is designed as preparation for a professional career or graduate work in physics.

First- and Second-year Preparation. Prospective physics majors should take MATH 121 during the first semester and should complete PHSX 211, PHSX 212, PHSX 313, and PHSX 316 before the beginning of the junior year. Candidates for the B.S. degree should consult the requirements for the B.S. degree for additional first- and second-year requirements. Majors in all programs are encouraged to take PHSX 213 and PHSX 214, the honors versions of PHSX 211 and PHSX 212.

Requirements for the B.A. Major. A minimum of 28 hours in physics is required, including PHSX 211, PHSX 212, PHSX 313 and PHSX 316, PHSX 521, PHSX 531, PHSX 536, PHSX 611, and 3 hours in lecture or laboratory courses numbered 500 and above. Some courses require MATH 223 and MATH 290 and MATH 220 or MATH 320 as prerequisites. Completion of two semesters of chemistry is strongly recommended.

Requirements for the B.A. Major with a Concentration in Computational Physics. A minimum of 31 hours in physics is required, including

PHSX 211 (or PHSX 213) General Physics I	4
PHSX 212 (or PHSX 214) General Physics II	4
PHSX 313 General Physics III (3) and	
PHSX 316 Intermediate Physics Laboratory (1)	4
PHSX 521 Mechanics I	3
PHSX 531 Electricity and Magnetism	3
PHSX 536 Electronic Circuit Measurement and Design	4
PHSX 500 (or PHSX 501) Special Problems	6
PHSX 615 Numerical and Computational Methods in Physics	3

Also required are 6 hours of computer science (EECS 168, EECS 268), MATH 290 and either MATH 220 or MATH 320, CHEM 184 (5 hours), PHIL 310 (3 hours), ECON 142 or ECON 144 (4 hours), and BIOL 100 (3 hours). CHEM 184, PHIL 310, ECON 142 or ECON 144, and BIOL 100 should be taken to fulfill B.A. general education requirements.

Requirements for the B.S. Degree in Physics. The B.S. requires completion of a 124-hour curriculum:

General Requirements (48 hours)

EECS 138 Introduction to Computing: FORTRAN or C++ (3) or	
EECS 168 Programming I (4)	3-4
English—Satisfaction of B.A. requirements. If requirements can be satisfied in fewer than 9 hours, the remaining hours be-	

KU physics

research projects

include adapting

NASA technology

to small

businesses and

industries.

Students

considering

transferring to KU

may see how their

college-level

course work will

transfer by going

online to [www.](http://www.admissions.ku.edu)

admissions.ku.edu

[/requirements/](http://admissions.ku.edu/requirements/)

[credtran/find.](http://admissions.ku.edu/requirements/)

[shtml.](http://admissions.ku.edu/requirements/)

come free electives. (ENGL 362 Foundations of Technical Writing is accepted as the third English course.)	9
Western civilization	6
Humanities: two courses including at least one principal course ...	6
Social sciences: two courses including at least one principal course ...	6
Free electives	17-18

Physics (45 hours)

PHSX 211 (or PHSX 213), PHSX 212 (or PHSX 214), and PHSX 313 and PHSX 316 General Physics I, II, and III	12
PHSX 516 Physical Measurements	4
PHSX 521 Mechanics I	3
PHSX 531 Electricity and Magnetism	3
PHSX 536 Electronic Circuits and Measurements	4
PHSX 611 Introductory Quantum Mechanics	3
PHSX 621 Mechanics II	3
PHSX 631 Electromagnetic Theory	3
PHSX 671 Thermal Physics	3
PHSX 503 Undergraduate Research (1) or PHSX 501 Honors Research (1)	1
PHSX electives	6
(Six hours from any PHSX lecture or laboratory course numbered 500 or higher and not part of the other specific requirements for the major.)	

Mathematics (21 hours)

MATH 121 and MATH 122 Calculus I and II	10
MATH 223 Vector Calculus (3) and MATH 290 Elementary Linear Algebra (2)	5
MATH 320 Elementary Differential Equations	3
MATH elective	3
(This may be chosen from PHSX 518, PHSX 718, MATH 526, MATH 530, MATH 558, MATH 581, MATH 590, MATH 628, MATH 646, MATH 647, MATH 648, MATH 660, MATH 661, or any 700-level MATH lecture course except MATH 701 and MATH 715.)	

Chemistry (10 hours)

CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
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Requirements for the Minor. The minor requires 21 hours, as follows:

PHSX 211 (or PHSX 213) General Physics I	4
PHSX 212 (or PHSX 214) General Physics II	4
PHSX 313 General Physics III (3) and PHSX 316 Intermediate Physics Laboratory I (1)	4
PHSX 521 Mechanics I	3
PHSX 531 Electricity and Magnetism	3
Any PHSX course numbered 500 or above	3

Requirements for the B.S. in Engineering Physics. See the School of Engineering chapter of this catalog.**Concentration in Business.** A student may graduate from the School of Business with a concentration option in physics. Departmental requirements are**Required Courses in Physics**

PHSX 211, PHSX 212, and PHSX 313 and PHSX 316 General Physics I, II, and III	12
Other physics courses numbered 300 or above	11

Prerequisites to Courses in Physics

MATH 121 and MATH 122 Calculus I and II	10
MATH 223 Vector Calculus (3) and MATH 290 Elementary Linear Algebra (2)	5
MATH 320 Elementary Differential Equations	3

Students who plan to elect this option should consult advisers in the School of Business and the Department of Physics and Astronomy. MATH 121 can be replaced by MATH 115 and MATH 116.

Honors. A qualified student earning either a B.A. or a B.S. degree in the College of Liberal Arts and Sciences with a major in physics may graduate with honors in physics by fulfilling these requirements:

1. By the end of the candidate's final semester, achieve a minimum grade-point average of 3.25 overall and 3.5 in the major, in all courses taken in residence and elsewhere.
2. Complete at least 24 semester credit hours of physics courses numbered 500 or above, including undergraduate research represented by 4 hours of credit in PHSX 500 Special Problems or PHSX 501 Honors Research. The student must earn a grade of B or higher in PHSX 500 or PHSX 501.
3. The student must present the results of the research in written form, which must be accepted by three department faculty members.

A student who plans to graduate with honors in physics must file a declaration of intent form with the departmental honors coordinator, preferably during

his or her junior year, but in any case, no later than enrollment for the final undergraduate semester.

● Physics Courses

PHSX 111 Introductory Physics (3). NP N A one-semester survey of classical and modern physics, designed primarily for liberal arts students. Typical subjects include the laws of motion, gravity, electricity and magnetism, sound, light, quantum mechanics, atomic and subatomic physics. Subjects are treated mainly conceptually with some use of basic data. Prerequisite: Eligibility for MATH 104. LEC

PHSX 112 Concepts in Physics, Honors (3). N A discussion of important concepts in physics. While basic concepts such as force, energy, and mass will be introduced as needed, the emphasis will be on an understanding and appreciation of contemporary science. Prerequisite: Eligibility for MATH 104 and participation in the University Honors Program or permission of instructor. LEC

PHSX 114 College Physics I (1-4). NP N Principles and applications of mechanics, fluids, heat, thermodynamics, and sound waves. Three class hours and one laboratory per week. This course emphasizes the development of quantitative concepts and problem solving skills for students needing a broad background in physics as part of their preparation in other major programs, and for those who wish to meet the laboratory science requirement of the College. In special circumstances, permission to enroll in less than four hours may be obtained from the department. Not open to students with credit in PHSX 211 or PHSX 212. Prerequisite: MATH 104, or three and one-half years of college-preparatory mathematics including trigonometry and a score of 25 or higher on ACT mathematics. LEC

PHSX 115 College Physics II (1-4). N A continuation of PHSX 114. Principles and applications of electricity, magnetism, light, atomic physics, and nuclear physics. Three class hours and one laboratory per week. In special circumstances, permission to enroll in less than four hours may be obtained from the department. Not open to students with credit in PHSX 212. Prerequisite: PHSX 114. LEC

PHSX 116 Introductory Physics Laboratory (1). U A laboratory exploring classical and modern physics, designed primarily for liberal arts students. Experiments in motion gravity, electricity and magnetism, sound, light, atomic and subatomic physics are designed to teach physics concepts and basic laboratory techniques. One two-hour lab period per week. Counts as a laboratory science when preceded or accompanied by PHSX 111. Prerequisite: Eligibility for MATH 104. Corequisite: PHSX 111. LAB

PHSX 211 General Physics I (1-4). NP N Introduction to classical mechanics and thermodynamics. Designed for students in engineering and physical science majors. In special circumstances, permission to enroll for fewer than four hours credit may be obtained from the department. Students with credit in PHSX 114 can obtain only one hour of credit. Prerequisite: MATH 116 or MATH 121; courses in high school physics and/or chemistry are recommended. LEC

PHSX 212 General Physics II (1-4). N Study of electricity and magnetism, waves and sound. In special circumstances, permission to enroll for fewer than four hours credit may be obtained from the department. Students with credit in PHSX 115 can obtain only one hour of credit. Prerequisite: PHSX 211. Corequisite: MATH 122. LEC

PHSX 213 General Physics I, Honors (1-4). NP N An honors section of PHSX 211. Credit for fewer than four hours requires permission of the department. Recommended for students with a strong math background who are either in the University Honors Program or intending to major in a physical science. Courses in high school physics and chemistry are strongly recommended. Prerequisite: MATH 121 and permission of instructor. LEC

PHSX 214 General Physics II, Honors (1-4). N An honors section of PHSX 212. Credit for fewer than four hours requires permission of the department. Recommended for students with a strong math background who are either in the University Honors Program or intending to major in a physical science. Prerequisite: PHSX 211 or PHSX 213, and permission of instructor. Corequisite: MATH 122. LEC

PHSX 313 General Physics III (3). N Introduction to modern physics. Topics include special relativity, optics, and introductions to quantum mechanics and solid state physics. Prerequisite: PHSX 212 or PHSX 214 or EECS 220. Corequisite: MATH 320 or MATH 220. LEC

PHSX 316 Intermediate Physics Laboratory I (1). N Experiments in optics and modern physics. Development of experimental skills, data reduction, error analysis, and technical writing. One lab meeting per week and one lecture per week on topics including error analysis and experimental design. Pre-or corequisite: PHSX 313. LAB

PHSX 321 Intermediate Mechanics (3). N Newton's laws of motion and their application to the study of particles and rigid bodies, vibrational, and rotational motion. Not open to students having credit in PHSX 521. Prerequisite: PHSX 115 or PHSX 212, CE 201, and MATH 250 or MATH 320. LEC

PHSX 500 Special Problems (1-5). N Work in some area of physics beyond the topics or material covered in other courses. For some

problems, continued enrollment in consecutive semesters may be appropriate. Prerequisite: One junior-senior course in science in an area related to the problem and consent of instructor. IND

PHSX 501 Honors Research (1-4). N This course is to enable students seeking departmental Honors in Astronomy, Engineering Physics, or Physics to fulfill the undergraduate research requirement. At the completion of the required 4 hours of total enrollment, a written and oral report of the research is required. (Same as EPHX 501.) Prerequisite: Junior/Senior standing in Astronomy, Engineering Physics, or Physics, or permission of instructor. IND

PHSX 502 Seminar in Physics and Astronomy Instruction (1-3). N One meeting per week to plan and report progress on projects which may include tutoring of students in personalized modes of study; developing, administering, and scoring test items; designing and improving demonstration and laboratory experiments. Amount of credit depends on projects contracted for and completed. (Distribution credit given for two-three hours only.) Prerequisite: Evidence of prior academic experience relevant to the student's proposed activities in the seminar and permission of instructor. LEC

PHSX 503 Undergraduate Research (1-4). N This course is for students seeking to fulfill the undergraduate research requirement. Students are expected to participate in some area of ongoing research in the department, chosen with the help of their adviser. At the end of the term, students will present their results in a seminar to other students and faculty. (Same as ASTR 503 and EPHX 503.) Prerequisite: Junior/Senior standing in Astronomy, Engineering Physics, or Physics, or permission of instructor. IND

PHSX 514 Science Communications to Nontechnical Populations (3). U Three hours presentation per week. Planning, preparing, and presenting science principles to elementary school students. Emphasis on oral and visual communication, effective group management, and working effectively with non-technical professionals (elementary school teachers). Training session is mandatory. Prerequisite: Two English courses, PHSX 114 or PHSX 211, CHEM 184, junior or senior standing in a natural science major, and permission of instructor. LEC

PHSX 516 Physical Measurements (4). N A laboratory course emphasizing experimental techniques and data analysis, as well as scientific writing and presentation skills. Experiments will explore a range of classical and modern physics topics. (Same as EPHX 516.) Prerequisite: PHSX 313, PHSX 316 and PHSX 521. (PHSX 521 may be taken concurrently.) LAB

PHSX 518 Mathematical Physics (3). N Applications of modern mathematical methods to problems in mechanics and modern physics. Techniques include application of partial differential equations and complex variables to classical field problems in continuous mechanics, unstable and chaotic systems, electrodynamics, hydrodynamics, and heat flow. Applications of elementary transformation theory and group theory, probability and statistics, and nonlinear analysis to selected problems in modern physics as well as to graphical representation of experimental data. Prerequisite: PHSX 313 and MATH 320 or permission of instructor. (Same as EPHX 518.) LEC

PHSX 521 Mechanics I (3). N Newton's laws of motion. Motions of a particle in one, two, and three dimensions. Motion of a system of particles. Moving coordinate systems. (Same as EPHX 521.) Prerequisite: PHSX 211 or PHSX 213, MATH 223, MATH 290 and MATH 220 or MATH 320. LEC

PHSX 528 Geodynamics and Plate Tectonics (3). N Study of physical processes in the solid Earth and of geophysical approaches to studying Earth systems at regional and global scales. Topics include global potential fields, thermal regime, rheology and Earth deformation, earthquakes and seismic structure, plate motions and global tectonics. (Same as GEOL 573) Prerequisite: An introductory course in geology, MATH 116 or MATH 122, and PHSX 115 or PHSX 212 or PHSX 214. LEC

PHSX 531 Electricity and Magnetism (3). N The properties of electric and magnetic fields, including electrostatics, Gauss' Law, boundary value methods, electric fields in matter, electromagnetic induction, magnetic fields in matter, the properties of electric and magnetic dipoles, and of dielectric and magnetic materials. (Same as EPHX 531.) Prerequisite: PHSX 212 or PHSX 214, PHSX 521 or special permission, MATH 223, MATH 290 and MATH 220 or MATH 320. LEC

PHSX 536 Electronic Circuit Measurement and Design (4). N A laboratory course that explores the theory and experimental techniques of analog and digital electronic circuit design and measurements. Topics include transient response, transmission lines, transistors, operational amplifiers, and digital logic. (Same as EPHX 536.) Prerequisite: PHSX 212 or PHSX 214, MATH 223 and MATH 290. PHSX 313 and 316 recommended. LAB

PHSX 557 Topics in Mechanics, Properties of Materials, Thermodynamics (1-3). This course covers the principles and applications of classical mechanics, fluids, heat, thermodynamics and sound. Teaching of these topics is strongly emphasized. Some laboratory work is included. This course is intended for students accepted to the BS Education major in Physics. This course does not count towards Physics or Astronomy major requirements in the College of Liberal Arts and Sciences. Prerequisite: Math 115 and 116, and either PHSX 114 or PHSX 211. LEC

PHSX 558 Topics in Electricity and Magnetism and Optics (1-3). This course covers the principles and applications of electricity, magnetism and optics. Teaching of these topics is strongly emphasized. Some laboratory work is included. This course is intended for students accepted to the BS Education major in physics. This course does not count towards Physics or Astronomy major requirements in the College of Liberal Arts and Sciences. Prerequisite: MATH 115 and 116, and either PHSX 115 or PHSX 212. LEC

PHSX 559 Topics in Modern Physics (1-3). This course covers the principles and applications of quantum mechanics, atomic and nuclear physics. Teaching of these topics is strongly emphasized. Some laboratory work is included. This course is intended for students accepted to the BS Education major in physics. This course does not count towards Physics or Astronomy major requirements in the College of Liberal Arts and Sciences. Prerequisite: MATH 115 and 116, and either PHSX 115 or PHSX 313. LEC

PHSX 594 Cosmology and Culture (3). H A survey of modern physical cosmology, its recent historical roots, and creation myths from many world cultures. An examination of the effects of these stories on their parent cultures. LEC

PHSX 600 Special Topics in Physics and Astrophysics: ____ (3). N Different topics will be covered as needed. This course will address topics in physics and astrophysics not covered in regularly offered courses. May be repeated if topic differs. (Same as EPHX 600.) Prerequisite: Permission of instructor. LEC

PHSX 601 Design of Physical and Electronic Systems (4). N A laboratory course emphasizing the application of physical principles to the design of systems for research, monitoring, or control. Topics include the use of microcomputers as controllers, interfacing microcomputers with measurement devices, and use of approximations and/or computer simulation to optimize design parameters, linear control systems, and noise. (Same as EPHX 601.) Prerequisite: Twelve hours of junior-senior credit in physics or engineering, including one laboratory course. LAB

PHSX 611 Introductory Quantum Mechanics (3). N An overview of modern physics covering wave-particle duality, the Schrodinger Equation, simple systems and potentials, and the harmonic oscillator. Operators, eigenvalues and measurements; central forces and bound states, angular momentum and its addition, approximation methods. (Same as EPHX 611.) Prerequisite: PHSX 313 and MATH 290. LEC

PHSX 615 Numerical and Computational Methods in Physics (3). N An introduction to the use of numerical methods in the solution of problems in physics for which simplifications allowing closed-form solutions are not applicable. Examples are drawn from mechanics, electricity, magnetism, thermodynamics, and optics. (Same as EPHX 615.) Prerequisite: PHSX 313, MATH 320 or equivalent, and EECS 138 or equivalent. LEC

PHSX 621 Mechanics II (3). N Continuation of PHSX 521. Lagrange's equations and generalized coordinates. Mechanics of continuous media. Tensor algebra and rotation of a rigid body. Special relativity and relativistic dynamics. (Same as EPHX 621.) Prerequisite: PHSX 521. LEC

PHSX 623 Physics of Fluids (3). N An introduction to basic fluid mechanics in which fundamental concepts and equations are covered. Topics include hydrostatics, hydrodynamics, wave propagation in fluids, and applications in the areas such as astrophysics, atmospheric physics, and geophysics. (Same as EPHX 623.) Prerequisite: PHSX 212 or PHSX 214, MATH 223, and MATH 290. LEC

PHSX 631 Electromagnetic Theory (3). N Maxwell's equations, wave propagation, optics and waveguides, radiation, relativistic transformations of fields and sources, use of covariance and invariance in relativity. Normally a continuation of PHSX 531. (Same as EPHX 631.) Prerequisite: PHSX 531. LEC

PHSX 641 Introduction to Nuclear Physics (3). N Experimental methods and elementary concepts in nuclear physics, including nuclear forces, alpha and beta decay, gamma radiation, nuclear structure, and reaction systematics. (Same as EPHX 641.) Prerequisite: PHSX 313 and PHSX 611. LEC

PHSX 655 Optics (3). N Geometric optics. Wave properties of light: interference, diffraction, coherence. Propagation of light through matter. Selected topics in modern optics, e.g., lasers, fibers. (Same as EPHX 655.) Prerequisite: PHSX 313 and PHSX 316. LEC

PHSX 661 Introduction to Elementary Particle Physics (3). N Properties and interactions of quarks, leptons, and other elementary particles; symmetry principles and conservation laws; broken symmetry; gauge bosons; the fundamental interactions, grand unified theories of strong, electromagnetic, and weak interactions; the cosmological implications of elementary particle physics. (Same as EPHX 661.) Prerequisite: PHSX 313 and MATH 320. LEC

PHSX 671 Thermal Physics (3). N Development of thermodynamics from statistical considerations. Techniques of calculating thermodynamic properties of systems. Application to classical problems of thermodynamics. Elementary kinetic theory of transport processes. Fermi-Dirac and Bose-Einstein systems. (Same as EPHX 671.) Prerequisite: PHSX 611. LEC

PHSX 681 Concepts in Solids (3). N Properties of common types of crystals and amorphous solids. Lattice vibrations and thermal properties of solids. Electrons and holes in energy bands of metals, semi-

PHSX 211 and PHSX 212 are prerequisite to advanced work in chemistry.

KU has had seven Dwight Eisenhower/Clifford Roberts Fellows since the program was established in 1985.

"With solid academics, outstanding extracurricular programs, winning athletics, and a stellar social life, the University of Kansas is one of the nation's best buys — about 13 percent less than the national public university average." — 2006 Fiske Guide to Colleges.

conductors, superconductors, and insulators. (Same as EPHX 681.)
Prerequisite: PHSX 313 and PHSX 611. LEC

PHSX 691 Astrophysics I (3). N An introduction to radiation processes, thermal processes, and radiative transfer in stellar atmospheres and the interstellar medium. (Same as ASTR 691 and EPHX 691.) Prerequisite: PHSX 313 or consent of instructor. LEC

PHSX 693 Gravitation and Cosmology (3). N An overview of topics relevant to gravitation and modern cosmology: special relativity, tensor notation, the equivalence principle, the Schwarzschild solution, black holes, and Friedmann models. Cosmic black body radiation, dark matter, and the formation of large-scale structure. The idea of quantum gravity and an introduction to the current literature in cosmology. (Same as EPHX 693.) Prerequisite: PHSX 313 and MATH 320. LEC

PHSX 700 Colloquium (1).

PHSX 701 Major Experiments and Observations in Classical and Contemporary Physics (1-3).

PHSX 711 Quantum Mechanics I (3).

PHSX 717 Graduate Seminar (1).

PHSX 718 Mathematical Methods in Physical Sciences (3).

PHSX 721 Chaotic Dynamics (3).

PHSX 722 Geophysical Data Analysis (3).

PHSX 723 Seismology (3).

PHSX 724 Potential Fields in Geophysics (3).

PHSX 727 Advanced Geophysics: _____ (1-3).

PHSX 741 Nuclear Physics I (3).

PHSX 761 Elementary Particles I (3).

PHSX 781 Solid State Physics I (3).

PHSX 791 Seminar in Astrophysics (1-3).

PHSX 793 Physical Cosmology (3).

PHSX 795 Space Plasma Physics (3).

Physiology

Students may concentrate in physiology by seeking one of the degrees offered in Biological Sciences. See Biological Sciences.

Polish

See Slavic Languages and Literatures.

Political Science

Chair: Elaine Sharp

Blake Hall, 1541 Lilac Lane, Room 521

Lawrence, KS 66044-3177

(785) 864-3523, www.ku.edu/~kups

Degrees offered: B.A., B.G.S., M.A., Ph.D.

Course work is designed for students studying contemporary political processes as part of their general education, for students majoring in allied social sciences, for students planning to enter professions such as law and teaching, and for majors in political science.

Courses for Nonmajors

Any of the three introductory courses apply to College social sciences principal course requirements.

Majors

First- and Second-year Preparation. Prospective majors should enroll in all three introductory courses, or their honors equivalents, in their first two years.

POLS 110 Introduction to U.S. Politics

POLS 150 Introduction to Comparative Politics

POLS 170 Introduction to International Politics

A grade-point average of 2.3 in the three introductory courses is required for admission to the major. After this requirement is met, students should apply to the major by filling out a Major Declaration form, available at the main departmental office. Upon verification of the re-

quired grade-point average, a departmental representative signs the form. Students are strongly urged to apply to the major by the beginning of the junior year.

Students who do not achieve a 2.3 grade-point average in the three introductory courses may retake *one* of these courses *one* time to attempt to improve the grade-point average. Only the second grade is counted to determine acceptance into the major.

Requirements for the B.A. or B.G.S. Major. Undergraduate majors must complete a minimum of 33 credit hours of course work in the department, including the three introductory courses above and the following two courses or their honors equivalents:

POLS 301 Introduction to Political Theory

POLS 306 Political Science Methods of Inquiry

Of the remaining 18 required credit hours, 15 hours must be at the 400 level or above. These may be drawn from across the political science curriculum, with three limitations:

1. Students must take courses at the 400 level and above from at least two of five subfields: political philosophy and empirical theory, U.S. political institutions and processes, public policy and public administration, foreign governments and comparative politics, international relations.

2. A student may count no more than 6 hours toward the major from the following courses combined:

POLS 493 Directed Readings (1-3)

POLS 496 Washington Semester Fieldwork (3-6)

POLS 497 Topeka Semester Fieldwork (3-6)

POLS 498 Honors Thesis (3-6)

3. A student may not count the following courses toward the major:

POLS 494 Washington Semester Intern Seminar (3)

POLS 495 Topeka Semester Intern Seminar (3)

Public Affairs Internship Program. The department supervises integrated internships for majors who are second-semester juniors or seniors. They are offered during the spring semester in Topeka and Washington, D.C. Programs consist of up to 12 hours in political science—an internship, participation in an intern seminar, and directed readings. Students serve as interns in Topeka or Washington at least four days each week and attend weekly seminars. Students also may enroll in a directed readings course with a faculty member on campus. Readings provide a theoretical and analytical study program related to the internship and the seminar. Contact the department early in the fall semester.

Honors. Majors may qualify for departmental honors by completing 3 hours of POLS 506 Honors Seminar in Political Research and 3 hours of POLS 498 Honors Thesis (or 6 hours of POLS 498), presenting an acceptable honors thesis at the end of these enrollments, and passing an oral examination based primarily on the honors thesis. The student must have a minimum overall grade-point average of 3.25 and a minimum grade-point average of 3.5 in political science course work. These averages must be achieved at the end of the final semester. The program meets CLAS requirements for departmental honors. Consult the department before the beginning of the senior year.

● Political Science Courses

POLS 110 Introduction to U.S. Politics (3). SF S An introduction to basic American governmental institutions, political processes, and policy. LEC

POLS 111 Introduction to U.S. Politics, Honors (3). SF S Open only to students in the College Honors Program or by consent of instructor. LEC

POLS 150 Introduction to Comparative Politics (3). SF S An introduction to the comparative study of political systems emphasizing governmental structures, parties, electoral techniques, and recent trends in the field. The course also considers major differences between (1) representative and autocratic systems, and (2) developed and underdeveloped nations. LEC

Since the award was established in 1976, 16 KU students have received Truman Scholarships for outstanding potential for leadership in government.

The Robert J. Dole Institute of Politics offers programs that enhance the understanding of complex policy issues and encourage responsive and effective public service.

POLS 151 Introduction to Comparative Politics, Honors (3). SF S Open only to students in the College Honors Program or by consent of instructor. LEC

POLS 170 Introduction to International Politics (3). SF S A study of the nation-state system including the role of nationalism, sovereignty, and power. Patterns of state action including neutralism, collective security, war, and cooperation through international organizations are stressed. Specific examples of contemporary international problems are also analyzed and discussed. LEC

POLS 171 Introduction to International Politics, Honors (3). SF S Open only to students in the College Honors Program or by consent of instructor. LEC

POLS 249 Study Abroad Topics in Political Science: _____ (1-6). S This course is designed for the study of special topics in Political Science at the freshman/sophomore level. Course work must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

POLS 301 Introduction to Political Theory (3). S An examination of the perennial issues and major concepts in political philosophy. Ideas such as community, liberty, equality, justice, and democracy will be examined in order to understand the various meanings given to these concepts in political discourse and to understand the role to these ideas in various political theories. Prerequisite: Either POLS 110 or POLS 150 or POLS 170, or their honors equivalents. LEC

POLS 302 Introduction to Political Theory, Honors (3). S Prerequisite: Either POLS 110, POLS 150, or POLS 170, or their honors equivalents and open only to students in the College Honors Program, or by consent of instructor. LEC

POLS 306 Political Science Methods of Inquiry (3). S An introduction to the social science methods of investigation and analysis that are used in political science as a discipline and, in many cases, in public and private sector analytical work as well. The nature of political science data sources and methods of data collection, the logic of social scientific inquiry, and key methods of data analysis are emphasized. Prerequisite: POLS 110 and POLS 150 and POLS 170 (or their Honors equivalents), or consent of instructor. LEC

POLS 310 Contemporary Issues in U.S. Politics (3). S An examination of issues and problems concerning government and politics in American society. This course is intended primarily for non-majors, and does not meet the junior/senior level course field distribution requirement. LEC

POLS 320 Introduction to Public Policy (3). S Offers an introduction to the policy-making process covering policy formulation, adoption, and implementation. Overview of major theories of the policy-making process, the actors involved in the process, and the constraints and enhancements offered by the broader political environment. The theoretical frameworks are applied to several substantive policy areas. Prerequisite: POLS 110. LEC

POLS 330 Introduction to Public Administration (3). S Survey of public administration, focusing on bureaucratic organizations, the democratic context of public organizations, bureaucratic politics, public management, personnel, budgeting, and inter-governmental relations. (Same as PUAD 330.) Prerequisite: POLS 110. LEC

POLS 331 Introduction to Public Administration, Honors (3). S Survey of public administration for honors students, focusing on bureaucratic organizations, the democratic context of public organizations, bureaucratic politics, public management, personnel, budgeting, and inter-governmental relations. (Same as PUAD 331.) Prerequisite: POLS 110. LEC

POLS 350 Contemporary Issues in Comparative Politics (3). This course will survey selected current political issues around the globe. The focus of the course will be on understanding and analyzing the wide diversity of political phenomena that mark countries around the world. Topics may include such things as elections and electoral politics; political parties; government stability; democratization; ethnic, racial, caste, or religious conflict; protest and revolutionary movements; social movements (environmental, feminist, and others); and the politics of economic reform. This course is intended primarily for non-majors, and does not meet the junior/senior level course field distribution requirement. LEC

POLS 370 Contemporary Issues in International Politics (3). S A survey of selected issues in current international relations. Topics include global economic interdependence, regional conflicts and nationalism, United States military and economic policy in the post-Cold War era, the role of international organizations such as the United Nations and the European community, global environmental problems and the contemporary role of international law. This course is intended primarily for non-majors and does not meet the junior/senior level course field distribution requirement. LEC

POLS 412 Government of Kansas (3). S An intensive and descriptive course covering the organization, functions, constitutional, and governmental problems of the state of Kansas and the local governments therein. LEC

POLS 493 Directed Readings (1-3). U Individual and supervised readings in selected areas of political science. Course is repeatable for different areas; however, only 3 hours of directed readings can be applied to the major. Prerequisite: Six hours of political science, 2.5 overall grade-point average, and prior consent of department. IND

POLS 494 Washington Semester Intern Seminar (3). S This course is designed to familiarize students with national-level policy processes through exposure to participants ranging from interest group representatives to bureaucratic leaders to elected decision makers. This course is open only to students who are participating in the department's organized, supervised, semester-long Washington internship program. In order to be eligible for the program, students must have junior or senior standing and an overall grade-point average of 2.75, have completed POLS 110, and have a 3.0 grade-point average in all political science courses. Prerequisite: Consent of instructor is required prior to enrollment. FLD

POLS 495 Topeka Semester Intern Seminar (3). S This course is designed to familiarize students with state-level policy processes through exposure to participants ranging from interest group representatives to bureaucratic leaders to elected decision makers. This course is open only to students who are participating in the department's organized, supervised, semester-long Topeka internship program. In order to be eligible for the program, students must have junior or senior standing, an overall grade-point average of 2.75, must have completed POLS 110 and have a 3.0 grade point average in all political science courses. Prerequisite: Consent of instructor is required prior to enrollment. FLD

POLS 496 Washington Semester Field Work (3-6). S Supervised internships in public and private agency offices in the Washington, D.C. area. This course is open only to students who are participating in the department's organized, supervised, semester-long Washington internship program. In order to be eligible for the program, students must have junior or senior standing, an overall grade-point average of 2.75, must have completed POLS 110 and have a 3.0 grade point average in all political science courses. Course will be graded satisfactory/unsatisfactory. Prerequisite: Consent of instructor is required prior to enrollment. FLD

POLS 497 Topeka Semester Field Work (3-6). S Supervised internships in public and private agency offices in the Topeka area. This course is open only to students who are participating in the department's organized, supervised, semester-long Topeka internship program. In order to be eligible for the program, students must have junior or senior standing, an overall grade point average of 2.75, must have completed POLS 110 and have a 3.0 grade-point average in all political science courses. Course will be graded satisfactory/unsatisfactory. Prerequisite: Consent of instructor is required prior to enrollment. FLD

POLS 498 Honors Thesis (3-6). S Political science majors who in their senior year who wish to become candidates for graduation with honors in political science must enroll in and successfully complete six hours of honors thesis work. Consent of the department is required and candidate must have minimum grade point averages of 3.5 in political science courses and 3.25 in all courses, in both in-residence and combined work. IND

POLS 501 Contemporary Political Thought (3). S An examination of the major theoretical questions concerning citizenship and government in modern society. Major ideologies and important contemporary philosophers are examined to determine how they address such issues as the meaning of the public interest, the just distribution of power and privilege, the proper role of government in society, and legitimate methods for making collective decisions. Prerequisite: POLS 301, or (for non-majors) completion of the Western Civilization requirement, or consent of instructor. LEC

POLS 502 History of Political Thought (3). S A survey of major concepts and theories in political philosophy from Plato to Marx. The emphasis is on understanding major classics in western political thought. Prerequisite: POLS 301, or (for non-majors) completion of the Western Civilization requirement, or consent of instructor. LEC

POLS 503 Politics in Literature (3). S An examination and analysis of the portrayal of politics and political problems in literature. Classical and modern texts will be considered, including dramas, poems, and novels. Prerequisite: POLS 301, or (for non-majors) completion of the Western Civilization requirement, or consent of instructor. LEC

POLS 504 Millenarian Movements (3). S A historical survey of millenarian movements (the belief in imminent, total, ultimate, this-worldly, collective salvation), with particular attention to their psychological, sociological, and political dimensions. (Same as REL 504.) Prerequisite: POLS 301 or honors equivalent or for non-majors completion of Western Civilization requirement, or consent of instructor. LEC

POLS 505 Citizens, States, and Civility (3). S When human beings began to live in cities, some became citizens. What is a citizen? Who can be a citizen? What are the rights, duties, obligations of a citizen toward the city or state and toward other citizens? This course is an historical survey of citizenship and its problems from antiquity to the present. Special emphasis will be given to issues of civility and citizenship in the modern era. Prerequisite: POLS 110 or POLS 150 or POLS 170 or completion of the Western Civilization requirement. LEC

POLS 506 Honors Seminar in Political Research (3). S Students will be exposed to a variety of topics related to the conduct of political science research. Emphasis will be on how one discerns what is known and what remains to be discovered about a research topic, the development of theories and the hypotheses about the unknown, and the collection of information for testing theories. Students will be expected to begin independent research on a topic that might eventually culminate in an honors thesis. This seminar is intended for political science majors who are

in the honors or deans programs, who hold departmental scholarships, and/or who intend to write honors theses. Prerequisite: POLS 306. IND

POLS 511 The Judicial Process (3). S Covers judicial functions, organizations, personnel, and processes. Examines the goals of the law and the operations of the legal system in meeting these objectives. Focuses on norm enforcement, conflict resolution, and judicial policy-making. Prerequisite: POLS 110. LEC

POLS 513 Power in American Communities (3). S An examination of how democracy is practiced in local communities. Different models of the structure of community power are considered and attention is given to theories which facilitate predictions of when communities have "elitist," "pluralist," or "populist" democratic processes. Students are also presented with methods of analyzing the politics of nearby communities (e.g. Lawrence, Topeka) to ascertain their democratic performance. Prerequisite: POLS 110. LEC

POLS 515 American Political Parties (3). S Survey of the development of the American political party system, stressing party organization, nominating systems, campaigns, elections, role of mass media, and party finances. Prerequisite: POLS 110. LEC

POLS 516 Public Opinion and American Democracy (3). S This course examines the construction, administration, and interpretation of public opinion polls. The course will also examine the role of public opinion in the democratic process and the formation of public opinion. LEC

POLS 520 Political Communication (3). H This course will focus on contemporary political communication theory and illustrate how such theories are exemplified in modern political contexts: political arguments and developing consensus, constitutional issues and hearings, the rhetorical presidency, the dissemination of political information, and political uses of definition. (Same as COMS 607.) Prerequisite: COMS 130 or COMS 150. LEC

POLS 521 Rhetoric, Politics, and the Mass Media (3). H This course investigates the ways in which rhetorical strategies (persuasive and linguistic usage) permeate the relationship between politics and politicians and the mass media. We will analyze media coverage of political debates, the presidential use of radio, television and press conferences, and the network evening news coverage of political events to see how political decisions are influenced by and influence the media. (Same as COMS 335.) Prerequisite: COMS 130 or COMS 150. LEC

POLS 528 Environmental Justice and Public Policy (3). S This course provides an overview of environmental justice, both as a social movement and as a public policy initiative. Environmental justice examines the distribution of environmental externalities across different socioeconomic and racial groups. We will discuss several different public policy areas that have been impacted by the environmental justice movement: hazardous waste facility siting, urban redevelopment and Brownfields, transportation policy, and Native American sovereignty. We will also touch upon international environmental policy in an environmental justice context. Throughout the course we will evaluate empirical issues in studying environmental justice. (Same as EVRN 528.) Prerequisite: POLS 306 or a statistics class or consent of instructor. LEC

POLS 553 Comparative Environmental Politics (3). S This course compares environmental politics and policies across a number of countries, including those in North America, Western Europe, East Asia, and Latin America. (Same as EVRN 553.) LEC

POLS 562 Women and Politics (3). S This course exposes students to contemporary research on women and politics by surveying the subfields of political science. Topics include women's representation in the U.S., women and U.S. public policy, gender and legal theory, international women's movements, women and revolution, and women as political elites. We will examine the ways in which feminist theory and women's activism have challenged the narrow focus of the discipline as well as redefined women's place in society. (Same as WS 562.) Prerequisite: A 100-level POLS course or WS 201 or permission of instructor. LEC

POLS 563 Comparative Political Economy (3). S This course studies fiscal, monetarist, and trade policies to assess the usefulness and problems posed by these policy instruments across countries. This includes examining exchange rates, interest rates, budget deficit, trade deficit, and debt, to understand their composition and relevance to domestic economy, employment, investment, development, and international trade, the problems they pose, and how these may be overcome. We then examine when, how, and why government enacts these instruments across countries and regions. Prerequisite: POLS 150 or POLS 151. LEC

POLS 564 Elections and Political Parties Around the World (3). S An examination of the diverse forms of election rules and their consequences for political parties, politicians, and voters. The course will survey election rules in theory and practice; the design and re-design of election rules in new and established democracies; and how elections affect party strategies or governance and representation, and the types of party systems that emerge. The course will also incorporate intensive studies of election campaigns occurring during the semester that the course meets. Prerequisite: POLS 150. LEC

POLS 565 Political Change in Asia (3). S This course focuses on three periods of major political changes in Asia since 1945; independence from colonization; adoption of governance; and steps toward

democratization. The focus on political change is to help students see that a) many countries initiate political reforms domestically; b) the ability to implement changes is correlated to ability to win support; c) the constitutional process may favor some groups over others; d) the ability to mediate political stability depends on (a), (b), and (c). Prerequisite: POLS 150 or equivalent. LEC

POLS 572 National Security Policy (3). S An investigation into (1) how security policy is made; (2) the evolution of changing assumptions, strategies and goals since 1945; and (3) the present policy and its alternatives. Prerequisite: Six hours of political science, including POLS 170. LEC

POLS 600 Contemporary Feminist Political Theory (3). S A detailed introduction to feminist thought post-1960. Examines feminism in relation to the categories of political theory: liberal feminism, socialist feminism, radical feminism, and postmodern feminism. Within these categories and separately, we will also consider feminism as it is influenced by women traditionally excluded from mainstream feminist thought, namely U.S. woman of color and women of post-colonial societies. (Same as WS 600.) Prerequisite: WS 201 or a 100-level POLS course or permission of instructor. LEC

POLS 601 Political Ideologies (3). S A systematic survey of the major political ideologies of the 19th and 20th centuries such as anarchism, socialism, liberalism, fascism, communism, and participatory democracy. Prerequisite: POLS 301, or (for non-majors) completion of the Western Civilization requirement, or consent of instructor. LEC

POLS 602 American Political Ideas (3). S A study of political movements and thinkers from the Puritan period to the present that have influenced the development of contemporary political ideas. Prerequisite: POLS 301, or (for non-majors) completion of the Western Civilization requirement, or consent of instructor. LEC

POLS 603 Democratic Theory (3). S Detailed study of the typical and perennial dilemmas that arise in theories of democratic governance with an emphasis on contemporary analytical investigations of democratic systems. Prerequisite: POLS 301, or (for non-majors) completion of the Western Civilization requirement, or consent of instructor. LEC

POLS 604 Religion and Political Theory (3). S An examination of the relationship between religious faith and politics in Western political thought and theory. The approach will be both historical and philosophical, beginning with Moses on the one hand, and the Greeks on the other. Texts will include biblical, Greek philosophical, Jewish and Christian philosophical and theological writings. (Same as REL 604.) Prerequisite: POLS 301, or for non-majors completion of Western Civilization requirement, or consent of instructor. LEC

POLS 605 A Study of Political Thought in Antiquity (3). S Possible authors for examination may include Homer, Hesiod, Plato, Aristotle, Cicero, and Augustine, among others. Central topics will include the problems of truth and knowledge, justice, power, human rule, and the relationship of the individual to the community. Prerequisite: POLS 301, or (for non-majors) completion of the Western Civilization requirement, or consent of the instructor. LEC

POLS 607 Modern Political Theory (3). S An analysis of works by various authors, with the intention of exploring the political ideas that emerge in conjunction with the appearance of modern science, the Enlightenment, the Industrial Revolution, and Romanticism. Topics will include the modern conceptions of the nature of being, truth, justice, and the relationship of the individual to the community. Prerequisite: POLS 301, or (for non-majors) completion of the Western Civilization requirement, or consent of instructor. LEC

POLS 608 Social Choice and Game Theory (3). S A survey of the political economic approach to individual and collective choice behavior called "rational choice." The course focuses on models of voting systems and other political institutions as seen from a game theoretic perspective. Prerequisite: Nine hours of political science and completion of the College of Liberal Arts and Sciences mathematics requirement for the B.A. degree. LEC

POLS 609 Topics in Political Theory: _____ (3). S A study of selected theorists in relation to a topic in political theory. Sample topics include: revolution; authority and community; elements of political power; political elites; ideology, human nature in politics, political conflict, etc. Theorists will range from ancient to contemporary. Course is repeatable for different topics. Prerequisite: POLS 301, or (for non-majors) completion of the Western Civilization requirement, or consent of instructor. LEC

POLS 610 Constitutional Law: Governmental Powers (3). S The Supreme Court viewed as a political branch of our government. Special emphasis on the Court's role in determining powers of government and their relationships. Prerequisite: POLS 110. LEC

POLS 611 Constitutional Law: Civil Liberties (3). S The constitutional limits on governmental powers are studied with special emphasis on constitutional guarantees of individuals freedom. Prerequisite: POLS 110. POLS 610 is recommended. LEC

POLS 612 Psychology in Politics (3). S An examination of psychological perspectives on political phenomena. Topics include political personality, foreign policy decision making, international conflict and cooperation, voting behavior, and political participation and socialization. Prerequisite: Nine hours of political science, including POLS 110 and POLS 170. LEC

The 2006 Fiske Guide to Colleges gives KU four stars for academics, social life, and overall quality of university life. Only a handful of state universities received higher marks for academics.

A major in women's studies is available. See Women's Studies.

POLS 613 Comparative U.S. State Politics (3). S A systematic comparative analysis of structures, functions, and policies of state political systems. Prerequisite: POLS 110 or consent of instructor. LEC

POLS 614 Urban Politics (3). S A survey of the social, cultural, economic, and structural differences among cities and an investigation into how these factors affect urban politics and policies. Specific topics include leadership, governmental reform, citizen participation, inter-ethnic conflict, and economic development. Prerequisite: POLS 110. LEC

POLS 615 Campaigns and Elections (3). S This course examines the behavior of candidates, campaigns, and voters in the electoral process. Topics will include the role of media, the impact of money, the operations of political campaigns and the effect of campaign laws. LEC

POLS 616 Interest Group Politics (3). S Study of internal group organization and the politics of interests within the U.S. policy-making process. Prerequisite: POLS 110. LEC

POLS 617 The Congress (3). S Descriptive and comparative analysis of legislative institutions and processes in the United States, covering Congress and state legislatures. Prerequisite: POLS 110. LEC

POLS 618 The Presidency (3). S The office of the President of the United States, its place in the constitutional and political system. Emphasis is given to modern experience and current problems. Prerequisite: POLS 110. LEC

POLS 619 Topics in American Politics: _____ (1-3). S A study of selected contemporary problems of policy or politics in the United States. Course is repeatable for different topics. Prerequisite: POLS 110. LEC

POLS 620 Formulation of Public Policy (3). S Analysis and evaluation of the structures and processes involved in the formulation of public policy at all levels of government. Prerequisite: POLS 110. LEC

POLS 621 Public Policy Analysis (3). S An introduction to the study and analysis of public policy with emphasis on the concepts and techniques of policy thinking. The methods of policy description, explanation, evaluation, and choice will be applied to a variety of policy topics, e.g. health care, defense, environmental protection, education, etc. Prerequisite: POLS 110. LEC

POLS 622 Government and the Economy (3). S An examination of the formulation and execution of government policies in the economy and the business sector; the impact of the economy and business on government policies and the impact of government policies on the economy and business. Prerequisite: POLS 110 or consent of instructor. LEC

POLS 623 The Politics of Social Policy (3). S An examination of the formulation and execution of key social policies in the United States, such as welfare policy, crime and drug control policy, disability rights policy, education policy, and social regulatory policy concerning controversial social issues such as abortion and gun control. Prerequisite: POLS 110. LEC

POLS 624 Environmental Politics and Policy (3). S Analysis of environmental politics and the formulation and implementation of environmental policy. Examines the history and development of environmental politics as well as current trends. Themes include interest groups, business interests, political institutions, and specific environmental policy issues. (Same as EVRN 620.) LEC

POLS 625 Extremist Groups and Government Response (3). S Examines left- and right-wing extremist political groups in America and how the government has developed policies and respond to these groups. Special attention will be given to the process of policy adoption and implementation and how the government might respond to extremist groups in the future. Issues and themes will include groups such as the left-wing terrorists of the 1960s and 1970s, right-wing anti-communist groups of the 1950s and 1960s, international terrorists acting in the U.S., hate crime, ecoterrorism, citizen militia groups, and pro- and anti-abortion extremist groups. Prerequisite: POLS 110. LEC

POLS 629 Topics in Public Policy: _____ (1-3). S Examination of the U.S. political system and policy formulation and administration through intensive analysis of selected current public policy problems. Sample topics include the environment, education, and economic well-being. Course is repeatable for different topics. Prerequisite: POLS 110. LEC

POLS 631 Professionalism and Democracy (3). S This course deals specifically with the concepts of professionalism and expertise and the challenges they pose for democratic concepts like representation, participation, social equity, and individual rights. Prerequisite: POLS 330 or consent of instructor. LEC

POLS 632 The Administrative State (3). S This course will deal with the moral and political challenges of public organizations. It explores the transition of the state from a political to an administrative unit emphasizing the implications for a democratic society. Prerequisite: POLS 330 or consent of instructor. LEC

POLS 634 Bureaucratic Politics (3). S Examination of U.S. governmental agencies with special attention to their development and role in the American political system. Prerequisite: POLS 330. LEC

POLS 635 Public Organizations and Citizenship (3). S This course will focus specifically on the relationship between administrative agencies and the various roles citizens occupy in our administrative arena. Attention will be devoted to citizens as clients, advocates, antagonists, employees, and wards or captives. Prerequisite: POLS 330 or consent of instructor. LEC

POLS 642 The Administrative State, Honors (3). S This course deals with the moral and political challenges of public organizations. It explores the transition of the state from a political to an administrative unit emphasizing the implications for a democratic society. Prerequisite: POLS 111 or POLS 331 or permission of instructor. LEC

POLS 645 Corruption, Crisis, and Scandal (3). S This course investigates political events and decisions that are considered illegal or illegitimate. Cases from the U.S. and around the world are considered. Issues discussed include the misuse of governmental power and funds, electoral fraud, and bribery. Conditions under which problems arise and reforms that address them are considered. Prerequisite: POLS 110 and POLS 150. LEC

POLS 650 Palestinians and Israelis (3). S Examines the international relations, political institutions, and social politics of these two ethnonational communities in relation to each other. Specific topics include the historical evolution of the Israeli-Palestinian conflict, prospects for conflict resolution, electoral systems and political parties in the two nations, state-society relations, social movements, and roles of gender and religion. Prerequisite: Nine hours of Political Science, including POLS 150/POLS 151 or POLS 170/POLS 171, or permission of instructor. LEC

POLS 651 Women and Politics in Latin America (3). S This course examines the ways in which Latin American women have engaged in politics in the past two decades. Cases will draw from a variety of countries in Latin America. Students are expected to develop insights, through comparative analysis, into why women "do politics" in certain ways, the role of the State in women's politics, the (dis)advantages of various political strategies, and the ways in which political, economic, and social changes over time have affected women's political opportunities and interests. (Same as WS 651.) Prerequisite: Six hours of course work in Political Science and/or Women's Studies and/or Latin American Studies. LEC

POLS 652 Politics in Western Europe (3). S The study of the politics and governments of major West European countries, including the United Kingdom, France, and Germany. Prerequisite: POLS 150. LEC

POLS 653 Gender, War, and Peace (3). S This course explores ways in which militarization and warfare are gendered processes. We ask, what does war tell us about gender, and what does gender tell us about war? Though the majority of fighters are men, women are essential to war efforts. They also represent a high proportion of the casualties of war. Yet women are rarely examined in relation to war; thus we work to uncover women's experiences of war. We also look to women's contributions to the peace movement in terms of both theory and practice, asking: Is peace a feminist issue? Should feminists support women's access to combat positions or oppose the military? What if women ruled the world—would that end wars? Does militarized masculinity harm men more than benefit them? How do states mobilize citizens to war and how is the process gendered? (Same as WS 653.) Prerequisite: One of the following: POLS 150, POLS 151, POLS 170, POLS 171, WS 201, WS 202. LEC

POLS 654 Politics and Government of Russia and the Central Eurasian States (3). S/W The collapse of the Soviet system and the problems of transforming a central planned authoritarian state into a free market democracy. The roles of ethnic and national tensions, economic decay, and cultural factors. Prerequisite: Eight hours in the social sciences and/or history, including POLS 150, or consent of instructor. LEC

POLS 655 Politics of East-Central Europe (3). S/W This course analyzes Communist political theory in its application to the countries of East-Central Europe with consideration of their traditional backgrounds and their patterns of political, social, and economic developments. It constructs a theoretical model of the communist state and discusses its variations by description and comparison of the governments and political processes of Albania, Bulgaria, Czechoslovakia, German Democratic Republic, Hungary, Poland, Rumania, and Yugoslavia. Prerequisite: POLS 150 and three hours in the social sciences or East European history, or consent of instructor. LEC

POLS 656 Governments and Politics of East Asia (3). NW S/W A comparative examination of the contemporary political institutions, processes and ideas of China, Japan, and Korea. (Same as EALC 656.) Prerequisite: POLS 150 or a course in East Asian studies. LEC

POLS 657 Government and Politics of Southeast Asia (3). NW S/W An evaluation of the traditional and contemporary political institutions, behavior and ideas of the countries of Southeast Asia. Prerequisite: POLS 150 or a course in Asian history or Southeast Asian history. LEC

POLS 658 Theories of Politics in Latin America (3). S/W This course examines how political science can be used to explain the political dynamics of Latin America. The course will be devoted to understanding different theories about politics — many of which have been devised by political scientists whose primary focus of study is not Latin America — and examining their uses and limitations in understanding Latin America. Among the themes we will be examining are the relationships between economic growth, political culture, and democracy, the role of the military in politics, the political impact of new social movements (such as the women's movement and religious movements), theories of revolution, and understanding the prevalence of political corruption in the region. Along the way, we will analyze how political scientists at-

tempt to develop hypotheses, gather data, and test theories. Prerequisite: POLS 150 or a social science course in Latin American topics. LEC

POLS 659 Political Dynamics of Latin America (3). S/W Study of the institutions, processes, and special problems of selected Latin American countries. Prerequisite: POLS 150 or a course concerning Latin America in the social sciences or history. LEC

POLS 660 The Politics and Problems of Developing Countries (3). NW S/W A focus on topics pertinent to all of the underdeveloped areas such as the role of the military, styles of political leadership, land tenure systems, the role of the middle sectors, the nature of bureaucracy, the activity of the students, and foreign policy attitudes. Prerequisite: One of the following: POLS 652, POLS 653, POLS 654, POLS 655, POLS 656, POLS 657, POLS 658, POLS 659. LEC

POLS 661 Politics of the Middle East (3). NW S/W Survey of domestic and international political developments in the Middle East. Topics include: emergence of the modern nation-state, the role of Islam, leadership patterns, competing political ideologies, prospects for democratization, foreign policy relations, and regional conflicts. Prerequisite: Nine hours in political science, including POLS 150 and POLS 170 or their honors equivalents, or permission of instructor. LEC

POLS 663 Protest and Revolution (3). S An exploration of what happens when protesters challenge a state. The course focuses on the interactions and outcomes of dissident and state conflict. Topics include the relation between coercion and protest, strategy, violence, terrorism as adaptation, civil war and regime transition. Prerequisite: POLS 150. LEC

POLS 664 Middle East Politics, Honors (3). S Honors Version of POLS 661. Survey of domestic and international political developments in the Arab countries, Iran, Turkey, and Israel. Topics include state-society relations (e.g., forms of political organization, electoral politics, opposition movements, human rights, political Islam, gender), regional and international foreign relations, and the Arab-Israeli conflict. Prerequisite: Nine hours of Political Science, including POLS 150/151 and POLS 170/171, and membership in the University Honors Program; or by permission of instructor. LEC

POLS 665 Politics in Africa (3). NW S A survey of politics in Africa, focused on the countries of sub-Saharan or Black Africa. The course includes a historical discussion of precolonial Africa, colonization and the creation of contemporary states, and the politics of independence, before examining contemporary political systems and the forces influencing patterns of politics on the continent. (Same as AAAS 600.) Prerequisite: POLS 150 or AAAS 105 or AAAS 305 or consent of instructor. LEC

POLS 666 Political Economy of East Asia (3). S This course provides basic understanding of fiscal, monetarist, and trade politics; how governments in East Asia use them to pursue growth; the extent to which these governments follow or controvert economics to pursue growth; and how the performances of economies in East Asia relate to the U.S. and global economies. (Same as EALC 666.) Prerequisite: POLS 150. LEC

POLS 667 Islam and Politics (3). NW S An examination of the political role played by religion in Muslim countries. Rather than taking a regional perspective, this course compares a number of countries stretching from Southeast Asia to West Africa on the bases of a shared cultural trait. The bases of Islam's political role are explored, before discussing the politics of religion in a number of specific cases. Prerequisite: POLS 150 or consent of instructor. LEC

POLS 668 Reform in Contemporary China (3). NW H/W This course will examine the epochal changes that have occurred in China from Deng Xiaoping's rise to power in 1978 to the present. It will include a focus on the historical background of the revolutionary period before examining the political and economic changes that spawned the 1989 "prodemocracy" movement at Tiananmen. The course will conclude with an analysis of the events of the 1990s focusing on U.S.-China political and economic relations and the destabilizing effects of inflation, infrastructural reform, political and economic decentralization, and leadership succession. A previous course on China is helpful, but not mandatory. (Same as EALC 585 and HIST 585.) LEC

POLS 669 Topics in Comparative Politics: _____ (2-3). S A study of selected contemporary problems of policy or politics affecting several countries. Course is repeatable for different topics. Prerequisite: POLS 150. LEC

POLS 670 United States Foreign Policy (3). S An evaluation of the formulation of United States foreign policy in the post-World War II period. Economic, military, and diplomatic dimensions of policy; internal and external influences on policy; theories of foreign policy decision-making. Prerequisite: Nine hours of political science, including POLS 170. LEC

POLS 671 International Cooperation (3). S An examination of the gains possible from international cooperation and the barriers to achieving cooperation. Theoretical perspectives on international cooperation will be explored along with cases such as trade, the environment, arms control, and the European community. Prerequisite: POLS 170 or consent of instructor. LEC

POLS 672 International Political Economy (3). S Structural theories of the international political economy provide the framework for a consideration of the nature of hegemony, the management prob-

lem of multinational corporations, the role of international regimes and organizations, development, and dependency. Prerequisite: Nine hours of political science, including POLS 170. LEC

POLS 673 International Organization (3). S International organizations are examined with special emphasis devoted to the United Nations. A central theme of the course rests upon the question of whether strengthened international organization offers the only alternative to further world wars. Prerequisite: POLS 170 and three additional hours of political science. LEC

POLS 674 International Ethics (3). H This course reviews how philosophical perspectives elucidate the role ethics plays in foreign policy. It covers human rights doctrines, issues of economic and political justice, just war theory (jus ad bellum) and just conduct of war (jus en bello) and humanitarian intervention. Prerequisite: POLS 170 or POLS 171. LEC

POLS 675 Russian Foreign Policy (3). S/W Examination of the history of Soviet and Russian foreign policy and current issues of foreign policy in the Post-Soviet era. Analysis of foreign policy making in Russia and the other Post-Soviet states. Emphasis on the changed nature of international security problems after the cold war and on the role of foreign policy in economic development. Prerequisite: Eight hours in the social sciences or history, including either POLS 170 or a course in Russian history. LEC

POLS 676 International Relations of Asia (3). S/W An intensive study of the problems of ideological conflict, diplomatic relations, strategic arrangements, economic cooperation, and cultural exchange in East and Southeast Asia with special emphasis upon the roles of major world powers. (Same as EALC 676.) Prerequisite: POLS 170 or a course in East Asian studies. LEC

POLS 678 Chinese Foreign Policy (3). S/W In-depth examination of China's changing policies toward other countries with special emphasis on policy-making process, negotiating behavior, military strategy, economic relations, and cultural diplomacy. (Same as EALC 678.) Prerequisite: POLS 170 or a course in East Asian studies. LEC

POLS 679 International Conflict (3). S Examination of the historical and theoretical issues surrounding the sources and control of international conflict. Topics will include political and anthropological theories of conflict, the role of force in the international system, international law and just war approaches, nuclear conflict, arms control, and nonviolent alternatives to conflict. Prerequisite: Nine hours of political science, including POLS 170; POLS 306 is recommended. LEC

POLS 680 International Relations in Political Philosophy (3). S A consideration of classical and modern theories of the international system, such as the writing of Thucydides, Machiavelli, twentieth-century realists, and others. Topics include, theories of the state, the role of ethics and normative judgments in the world order, the nature and use of power, the relationship between domestic and international politics. Prerequisite: POLS 301, or (for non-majors) completion of the Western Civilization requirement, or consent of instructor. LEC

POLS 681 Comparative Foreign Policy (3). S An examination of theories that seek to explain the foreign policy behavior and decision making processes of states in international relations and a survey of past and present foreign policies of several states in Latin America, Western and Eastern Europe, Africa, the Middle East, and the Far East. Prerequisite: Nine hours of political science, including POLS 150 and POLS 170. LEC

POLS 682 U.S. Policy—Post-Colonial World (3). S Focuses on 20th and 21st century U.S. political, military, and economic relations with post-colonial states in Africa, Asia, Latin America, and the Middle East. Examines the impact of the international environment, ideology, the foreign policy bureaucracy, Congress, domestic factors, and individual leaders on U.S. policy choices. Considers an evaluation of policy implementation and outcomes. (Same as AAAS 602.) Prerequisite: Nine hours of political science, including POLS 170/POLS 171 and POLS 150/POLS 151, or permission of instructor. LEC

POLS 683 International Mediation, Honors (3). S This seminar examines the theories about, research on, and the practice of international mediation and other forms of non-militarized third party intervention used to address interstate, intrastate, and nonstate disputes. Specific topics include how mediation differs from other forms of non-militarized peace-building and conflict resolution; the conditions for mediation success (and how 'success' is defined; third party involvement after protracted civil conflict; the role of third parties in the implementation of peace agreements; the relationship between mediation, peace-building, and international law; and proactive conflict management. Prerequisite: Nine hours of political science, including POLS 170/171 and membership in the University Honors Program, or by permission of instructor. LEC

POLS 684 International Law: The State and the Individual (3). S International law has assumed an increasingly significant role in international life. This course will examine major law including (but not limited to): the changing status and role of the state; rights of minorities and self-determination; the environment; and human rights. The course will examine the central questions and the relevant international legal principles associated with each issue. Prerequisite: Six hours of Political Science, including POLS 170. LEC

Students interested in allied health professional programs should refer to the chart of Requirements for Admission to Allied Health Professional Programs, pages 228-229.

A premedical sequence is available in chemical engineering. See Engineering.

POLS 685 International Law: War, Territory, and Diplomacy (3). S International law has assumed an increasingly significant role in international life. This course will examine major issues including (but not limited to): the role of diplomacy and the international court; law of the sea and space; and rules of warfare. The course will examine the central questions and the relevant international legal principles associated with each issue. Prerequisite: Six hours of Political Science, including POLS 170. LEC

POLS 689 Topics in International Relations: _____ (2-3). A study of selected problems in international relations. Course is repeatable for different topics. Prerequisite: POLS 170. LEC

POLS 701 Political Theory (3).

POLS 702 Empirical Political Theories (3).

POLS 703 Social Choice and Game Theory (3).

POLS 705 Research Design for Political Science (3).

POLS 706 Research Methods I (3).

POLS 707 Research Methods II (3).

POLS 708 Advanced Qualitative Research Methods (3).

POLS 709 Topics in Political Theory: _____ (3).

POLS 711 The Psychological Base of Political Behavior (3).

POLS 712 The Electoral Process (3).

POLS 713 Law and Society (3).

POLS 715 Political Communication (3).

POLS 716 Political Behavior (3).

POLS 719 Topics in the American Political Institutions: _____ (3).

POLS 720 The Scope of Public Policy (3).

POLS 722 Intergovernmental Relations (3).

POLS 726 Public Policy in Comparative Perspective (3).

POLS 753 Politics of Ideocracy (3).

POLS 754 Politics and Government of Russia and the Central Eurasian States (3).

POLS 755 Politics of East-Central Europe (3).

POLS 758 Revolutionary Politics of Latin America (3).

POLS 760 The Politics and Problems of Developing Countries (3).

POLS 774 International Law (3).

POLS 775 Russian Foreign Policy (3).

POLS 776 International Relations of Asia (3).

POLS 777 International Relations of Latin America (3).

POLS 789 Topics in International Relations: _____ (2-3).

Portuguese

See Spanish and Portuguese.

Predentistry

See Premedical Professions in this chapter of the catalog.

Prelaw

Prelaw Adviser: Wendy Rohleder-Sook, prelaw@ku.edu
Strong Hall, 1450 Jayhawk Blvd., Room 126
Lawrence, KS 66045-7535
(785) 864-0176, www.prelaw.advising.ku.edu

For admission to law school, an applicant must complete a bachelor's degree and take the Law School Admission Test (LSAT). No particular course of undergraduate study is required. However, the program should be sufficiently rigorous to provide the skills of comprehension and analysis essential in law study.

To prepare for law school, students should take challenging courses and those of interest, but no specific courses are required or recommended. The American Bar Association recommends the development of numerous skills in preparation for a legal education, including analytical and problem solving, critical reading, writing, oral communication and listening, general research, and task organization and management skills. Fulfilling or exceeding general education and major requirements satisfies many of these objectives. Consult

the prelaw adviser about undergraduate courses beyond general education and major requirements.

It is strongly recommended that prelaw students attend a Prelaw Basics session (offered regularly each semester) early in their undergraduate careers for more complete prelaw information. Information is available online at www.prelaw.advising.ku.edu.

Students should submit law school applications the fall semester before entering law school. For most students, this is fall of the senior year. Admission is highly competitive, and law schools examine a number of factors. Heavy reliance is placed on the undergraduate grade-point average and score on the LSAT. All grades on the transcript, including transfer work, are reported to Law Services and used in calculating the applicant's cumulative grade point average. The LSAT tests skills in reading comprehension, logical reasoning, and analytical reasoning. It is offered four times a year: June, September/October, December, and February. Most applicants take the June or September/October test to submit applications early. The September/October test date often coincides with midterm examinations; many students prefer to take the LSAT in June after the junior year. Students should be well prepared and plan to take the LSAT only once, because most law schools average scores if the test is taken more than once. Students can register for the LSAT online at the Law School Admission Council Web site, www.lsac.org. Law schools also consider personal statements, letters of recommendation, extracurricular activities, and the rigor of the academic curriculum in determining admission.

Many academic policy options, such as the Credit/No Credit option and the course repeat policy, have different consequences for law school applicants. Consult the prelaw adviser before electing such options.

Premedical Professions

Premedical Adviser: Paul Crosby, pcrosby@ku.edu
Strong Hall, 1450 Jayhawk Blvd., Room 109
Lawrence, KS 66045-7535
(785) 864-3500, www.medadvising.ku.edu

Predentistry

Predentistry is a career interest, rather than a major or formal program. Students prepare by taking courses to meet dental school admission requirements and shadowing or working in dental practices. They take the Dental Admission Test (DAT) and apply for admission to dental schools, usually in the summer between the junior and senior year.

Dental schooling is four years of graduate-level, professional education and training. There is no dental school in Kansas, but there is an agreement for some seats at the University of Missouri–Kansas City School of Dentistry.

Most dental schools require two semesters each of English (ENGL 101 and ENGL 102), chemistry (CHEM 184 and CHEM 188), organic chemistry (CHEM 624, CHEM 625, CHEM 626, and CHEM 627), biology (BIOL 150 and BIOL 152) and physics (PHSX 114 and PHSX 115). Some require additional mathematics, psychology, and/or biology courses.

The UMKC School of Dentistry requires anatomy with lab (BIOL 240 and BIOL 241 or BIOL 440), phys-

iology with lab (BIOL 246 and BIOL 247 or BIOL 646 and BIOL 647), and cell biology (BIOL 416). Most people complete an undergraduate degree and major before entering dental school.

Call (785) 864-3500 to schedule an orientation or application meeting with the premedical adviser, and see www.medadvising.ku.edu/dentistry.

Premedicine

Premedicine is a career interest, rather than a major or formal program. Students prepare by taking courses to meet medical school admission requirements and volunteering or working in health care settings. They take the Medical College Admission Test (MCAT) and apply for admission to medical schools, usually in the summer between the junior and senior year.

Medical schooling is four years of graduate-level, professional education and training, followed by a three-to-five-year residency program. The only medical school in Kansas is the KU School of Medicine.

Most medical schools require two semesters each of English (ENGL 101 and ENGL 102), chemistry (CHEM 184 and CHEM 188), organic chemistry (CHEM 624, CHEM 625, CHEM 626, and CHEM 627), biology (BIOL 150 and BIOL 152) and physics (PHSX 114 and PHSX 115). Some require one or two semesters of calculus, and/or additional biology courses. Most people complete an undergraduate degree and major before entering medical school.

Call (785) 864-3500 to schedule an orientation or application meeting with the premedical adviser, and see www.medadvising.ku.edu/medicine.

Preoptometry

Preoptometry is a career interest, rather than a major or formal program. Students prepare by taking courses to meet optometry school admission requirements and shadowing or working in optometry practices. They take the Optometry Admission Test (OAT) and apply for admission to optometry schools, usually in the summer between the junior and senior year.

Optometry schooling is four years of graduate-level, professional education and training. There is no optometry school in Kansas, but there are agreements for some seats at the Northeastern State University of Oklahoma College of Optometry and the Southern College of Optometry in Tennessee, and there is a scholarship program for Kansas residents at the University of Missouri–St. Louis School of Optometry.

Most optometry schools require two semesters each of English (ENGL 101 and ENGL 102), chemistry (CHEM 184 and CHEM 188), biology (BIOL 150 and BIOL 152) and physics (PHSX 114 and PHSX 115), and one semester each of calculus (MATH 115), microbiology (BIOL 400 and BIOL 402), psychology (PSYC 104), statistics (PSYC 300, MATH 365, or BIOL 570), and organic chemistry (CHEM 622 and CHEM 625). Most also require or recommend one semester of anatomy (BIOL 240 and BIOL 241 or BIOL 440), biochemistry (BIOL 600 and BIOL 637), and physiology (BIOL 246 and BIOL 247 or 646 and BIOL 647). Some require additional mathematics, psychology, and/or other courses. Most people complete an undergraduate degree and major before entering optometry school.

Call (785) 864-3500 to schedule an orientation or application meeting with the premedical adviser, and see www.medadvising.ku.edu/optometry.

Preveterinary Medicine

Preveterinary medicine is a career interest, rather than a major or formal program. Students prepare by taking courses to meet veterinary school admission requirements and shadowing or working in veterinary practices. They take the Graduate Record Exam (GRE) and apply for admission to veterinary schools, usually in the summer between the junior and senior year.

Veterinary schooling is four years of graduate-level, professional education and training. The only veterinary school in Kansas is the Kansas State College of Veterinary Medicine.

The Kansas State College of Veterinary Medicine requires Expository Writing I and II (ENGL 101 and ENGL 102), Public Speaking (COMS 130), Chemistry I and II (CHEM 184 and CHEM 188), Organic Chemistry (CHEM 622 and CHEM 625), General Biochemistry (BIOL 600 and BIOL 637), Physics I and II (PHSX 114 and PHSX 115), Biology (BIOL 150), Microbiology (BIOL 400 and BIOL 402), Genetics (BIOL 350), 12 credit hours of social sciences and/or humanities, and enough electives to reach a total of 66 credit hours. Most people complete an undergraduate degree and major before entering veterinary school.

Call (785) 864-3500 to schedule an orientation or application meeting with the premedical adviser, and see www.medadvising.ku.edu/vm.

Prenursing

See the School of Nursing chapter of this catalog.

Preoptometry

See Premedical Professions in this chapter of the catalog.

Preveterinary Science

See Premedical Professions in this chapter of the catalog.

Psychology

Chair: Gregory Simpson, simpson@ku.edu
Fraser Hall, 1415 Jayhawk Blvd., Room 426

Lawrence, KS 66045-7556

(785) 864-4131, www.psych.ku.edu

Degrees offered: B.A., B.G.S., B.S., M.A., Ph.D.

Undergraduate courses are designed as part of a general education, for students preparing for careers in professional fields, and for students majoring in psychology, including those anticipating graduate work. See the department Web site for the most current information on requirements and policies.

Majors

First- and Second-year Preparation for the B.A. and B.G.S. Major. The first- and second-year survey courses are PSYC 104 or PSYC 105 and PSYC 120 or PSYC 121. Both fulfill the College principal course requirement in the social sciences area of individual behavior. Prospective majors should complete PSYC 104 or PSYC 105, because it is a prerequisite for most other courses in psychology. They may complete

PSYC 120 or PSYC 121 as an elective. Prospective majors are encouraged to take PSYC 300 and PSYC 310 early in their preparation to major in psychology.

Admission to the B.A. and B.G.S. Major. Students are strongly urged to apply to the major by the end of the first semester of the junior year. The student must complete an application form supplied by the department (available online at www.psych.ku.edu) and submit a current ARTS form supplied by College Student Academic Services. Applications may be submitted during the first two weeks of September, February, or June each year. Students are permitted to major in psychology if, at the time they apply, they meet these criteria:

1. Have completed at least 30 credit hours of college course work.
2. Have completed one semester (at least 9 hours) of courses at KU.
3. Have an overall grade-point average of at least 2.0 (C average).
4. Have completed PSYC 104, PSYC 300 or PSYC 310, and at least one but not more than three of the psychology core courses (PSYC 318, PSYC 333, PSYC 350, PSYC 360, PSYC 370, PSYC 380) or their equivalents.
5. Have a grade-point average of at least 2.5 based on grades in PSYC 104, PSYC 300 or PSYC 310, and all psychology core courses completed at the time of application.

The undergraduate advisory committee evaluates applications. Students providing documentation of meeting the criteria are admitted when they apply. Notification is made no later than October 15, March 15, or July 15 for fall, spring, or summer terms respectively. Unsuccessful applicants may reapply during the next application period. Faculty members are aware of the dangers associated with relying solely on grade-point average in selecting students. The department is committed to promoting cultural diversity in its programs, and the undergraduate advisory committee is guided by principles of affirmative action.

Requirements for the B.A. and B.G.S. Major. A minimum of 33 hours is required. At least 27 of these hours must be in courses numbered 300 and higher. No more than 3 hours of PSYC 480 Independent Study may be counted toward the 33-hour requirement.

Required Courses (9 hours)

- | | |
|---|---|
| PSYC 104 or PSYC 105 General Psychology | 3 |
| PSYC 300 or PSYC 301 Statistics in Psychological Research | 3 |
| PSYC 310 Research Methods in Psychology | 3 |

Core Courses (12 hours minimum)

Students also must complete one core course specified for at least four of the following five content areas:

- | |
|---|
| <i>Cognitive Psychology:</i> PSYC 318 or PSYC 319 Cognitive Psychology (3) |
| <i>Child Psychology:</i> PSYC 333 or PSYC 334 Child Psychology (3) |
| <i>Abnormal Psychology:</i> PSYC 350 or PSYC 351 Abnormal Psychology (3) |
| <i>Social Psychology:</i> PSYC 360 or PSYC 361 Social Psychology (3) |
| <i>Biological Psychology:</i> PSYC 370 or PSYC 371 Brain and Behavior (3) or PSYC 380 or PSYC 381 Brain and Pathology (3) |

Elective Courses (12 hours minimum). At least 6 of these hours must be completed with courses numbered 300 and higher.

Requirements for the Bachelor of Science Degree in Cognitive Psychology. This degree offers training in human sensation, perception, memory, and language processes and associated quantitative methods. The curriculum includes core courses in cognitive psychology and statistics and two laboratory courses in experimental psychology. Consult a cognitive psychology faculty member to arrange for an adviser.

Requirements for the B.A. or B.G.S. Degree in Developmental Psychology (Edwards Campus).

This degree, developed primarily with the KU Edwards Campus, offers training in the science of human development across the life span. The cur-

riculum includes core courses in statistics, research methods, and cognitive and social development. Information about specific courses and credit-hour requirements is available on the KU Edwards campus Web site and from the Department of Psychology.

Standards for admission to the developmental psychology program are consistent with those for admission to the psychology major on the Lawrence campus. Students may apply to the major after completing 30 semester hours of college course work with an overall grade-point average of at least 2.0. Students must have completed PSYC 104 General Psychology (or equivalent) and PSYC 333 Child Psychology (or equivalent), and must take either PSYC 300 Statistics in Psychological Research or PSYC 310 Research Methods in Psychology, with a grade-point average of at least 2.5 in these courses.

Required Courses. A total of 30 hours is required.

Level I (9 hours). PSYC 300 Statistics in Psychological Research, PSYC 310 Research Methods in Psychology, and PSYC 333 Child Psychology

Level II (6 hours). PSYC 430 Cognitive Development and PSYC 435 Social and Personality Development

Level III (9 hours, any three of the following courses). PSYC 405 The Mental Health of Children, PSYC 480 Independent Study*, PSYC 490 Theories and Concepts of Child Development, PSYC 510 Infant Behavior and Development, PSYC 520 Memory and Eyewitness Testimony in Children, PSYC 531 Language Development, PSYC 535 Developmental Psychopathology, PSYC 626 Psychology of Adolescence, PSYC 642 The Psychology of Families, PSYC 691 The Psychology of Aging

*No more than 3 credit hours of PSYC 480 may be applied toward the first 30 hours of the major.

Elective Courses (6 hours). Any 6 hours of psychology courses numbered higher than 300 meet the elective course requirement.

Preparation for Graduate Study. Students who plan to apply for graduate work in psychology should supplement their beginning course in statistics (PSYC 300 or PSYC 301) and methodology course (PSYC 310) with a laboratory course (e.g., PSYC 618, PSYC 620, PSYC 622, or PSYC 624). Statistics (PSYC 300) and Methods (PSYC 310) should be taken as early as possible in the undergraduate education. The laboratory course should be completed during the junior or senior year.

Honors. Students may inquire about admission to the honors program as soon as they are admitted to the major. Participation usually begins in the junior year. Normally a 3.25 grade-point average overall and a 3.5 grade-point average in psychology courses are required. Students follow individualized courses of study arranged through the director. Students who complete PSYC 460, individual research, and a paper under the direction of an instructor graduate with honors.

● **Psychology Courses**

PSYC 104 General Psychology (3). SI S A basic introduction to the science of psychology. LEC

PSYC 105 General Psychology, Honors (3). SI S Open to students in College or Departmental Honors programs or by permission of instructor. LEC

PSYC 120 Personality (3). SI S An introductory survey of personality theories, development, assessment and current research. LEC

PSYC 121 Personality, Honors (3). SI S Open to students in College or Departmental Honors programs or by permission of instructor. LEC

PSYC 202 Study Abroad Topics in: _____ (1-4). S This course is designed for the study of special topics in Psychology. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

PSYC 299 Conceptual Issues in Psychology (3). S This course examines classic issues in psychology—free-will and determinism, nature and nurture, the mind-body problem, approaches to human action, cultural influences on psychological theories, the evolution of intellectual paradigms, and inductive and deductive approaches to social sci-

See the Directory of Courses, pages 5-6, for help in finding course descriptions.

B.A. and B.G.S. degree programs in Developmental Psychology are offered on KU's Edwards Campus in Overland Park, Kansas. Call the CLAS undergraduate adviser at 864-8659 (from Lawrence) or (913) 897-8659 (outside of Lawrence) for information.

entific research—from multiple perspectives within psychology and related social sciences. Prerequisite: PSYC 104 or equivalent. LEC

PSYC 300 Statistics in Psychological Research (3). S An introduction to statistical concepts and methods as they relate to analysis and interpretation of psychological data. All majors in psychology are required to complete this course (or PSYC 301) and must do so before applying for admission to the major. Students should complete this course as early as possible in their undergraduate training. Prerequisite: PSYC 104 and MATH 101 or equivalent placement. LEC

PSYC 301 Statistics in Psychological Research, Honors (3). S Open to students in College and Departmental Honors programs or by permission of instructor. Not open to students who have taken PSYC 300. Prerequisite: PSYC 104 and MATH 101 or equivalent placement. LEC

PSYC 310 Research Methods in Psychology (3). S An examination of the scientific “ways of knowing” employed by psychologists to discover the laws governing human behavior across a wide domain. The focus of the course is upon these methods and the statistical techniques that support them. This course is strongly recommended for students planning to continue their study of psychology in graduate school. All majors in psychology are required to complete this course. Students should complete this course as early as possible in their undergraduate training. LEC

PSYC 318 Cognitive Psychology (3). S An introduction to contemporary research and theory in human learning and memory, relevant perceptual processes, and higher functions such as language. Prerequisite: PSYC 104. LEC

PSYC 319 Cognitive Psychology, Honors (3). S Open to students in College or Departmental Honors programs or by permission of instructor. Prerequisite: PSYC 104. LEC

PSYC 333 Child Psychology (3). S Psychological development of the child from conception to adolescence; emphasis upon social and cognitive changes as these relate to intrapersonal changes and to environmental conditions. Prerequisite: PSYC 104. LEC

PSYC 334 Child Psychology, Honors (3). S Open to students in College or Departmental Honors programs or by permission of instructor. Prerequisite: PSYC 104. LEC

PSYC 350 Abnormal Psychology (3). S An examination of psychopathology including anxiety disorders, psycho-physiological disorders, affective disorders, and schizophrenic disorders. Disorders are considered from psychodynamic, behavioral, cognitive, and biological perspectives. Prerequisite: PSYC 104. LEC

PSYC 351 Abnormal Psychology, Honors (3). S Open to students in College or Departmental Honors programs or by permission of instructor. Prerequisite: PSYC 104. LEC

PSYC 360 Social Psychology (3). S An introduction to the psychology of social behavior. Systematic consideration of such concepts as social influence, conformity and deviation, social attitudes and prejudice, socialization and personality, communication and propaganda, morale, and leadership. Prerequisite: PSYC 104. LEC

PSYC 361 Social Psychology, Honors (3). S Open to students in College or Departmental Honors programs or by permission of instructor. Prerequisite: PSYC 104. LEC

PSYC 370 Brain and Behavior (3). N A survey of basic topics relating to the biological bases of behavior, including the physiology of neuronal and synaptic transmission, neurochemistry, and neuropharmacology. This survey will be followed by lectures on selected topics within the area of brain and behavior such as motivation, appetite, reward, language, and left-right hemispheric differences. Prerequisite: An introductory course in Psychology and an introductory course in Biology. LEC

PSYC 371 Brain and Behavior, Honors (3). N Open to students in College or Departmental Honors programs or by permission of instructor. Prerequisite: An introductory course in psychology and an introductory course in biology. LEC

PSYC 380 Brain and Pathology (3). N The organization and function of the nervous system as it relates to topics of interest to psychologists, including pain, anxiety, stress, sleep, depression, schizophrenia, aknetic and dyskinetic movement disorders, and senile dementia. Prerequisite: An introductory course in psychology and an introductory course in biology. LEC

PSYC 381 Brain and Pathology, Honors (3). N Open to students in College or Departmental Honors programs or by permission of instructor. Prerequisite: An introductory course in psychology and an introductory course in biology. LEC

PSYC 402 Study Abroad Topics in: _____ (1-4). S This course is designed for the study of special topics in Psychology equivalent to courses at the 300 to 600 level at KU. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

PSYC 405 The Mental Health of Children (3). S The emotional and psychological development of children with particular focus upon the psychological and environmental conditions that contribute to or detract from mental health. Consideration of the emotional, cognitive and behavioral tasks related to effective functioning during infancy and childhood. Discussion of psychological treatment and prevention methods which affect the mental health of children at the leg-

islative, community action, educational, and family interaction levels. Prerequisite: PSYC 104 or equivalent. LEC

PSYC 406 Individual Differences (3). S A survey of the nature and sources of differences in human behavior and a consideration of the consequences of these differences for society. Prerequisite: PSYC 104. LEC

PSYC 410 Intimate Relationships (3). S A social psychological perspective on adult intimate relationships, examining friendship, dating, committed relationships, and the dissolution of committed relationships. Topics include romance, jealousy, self-disclosure, power, loneliness, and social support. Discussion of heterosexual and homosexual relationships, traditional forms (e.g., marriage) of relationships as well as alternative lifestyles (e.g. cohabitation) and gender-linked differences in relationships. Prerequisite: PSYC 104. LEC

PSYC 412 Introduction to Motivation and Emotion (3). S An examination of contemporary concepts, theories, and research in motivation. Prerequisite: PSYC 360, 361, 370 or 371, or consent of instructor. LEC

PSYC 415 Social and Cultural Sources of Self (3). S An interdisciplinary exploration of the social and cultural sources of self-experience. The first part of the course emphasizes a general process: how the development and experience of self, though it might seem essentially personal, is shaped by social interaction. The second part of the course highlights particular cases: how self-experience may be constructed differently depending on the particular social and cultural settings a person inhabits. Cases include influences of gender, socioeconomic status, and age group on the construction of self-experience within societies from around the world, and ethnic-identity groups within the U.S.A. Prerequisite: PSYC 104. LEC

PSYC 418 Introduction to Cognitive Science (3). S Examines the data and methodologies of the disciplines that comprise Cognitive Science, an inter-disciplinary approach to studying the mind and brain. Topics may include: consciousness, artificial intelligence, linguistics, education and instruction, neural networks, philosophy, psychology, anthropology, evolutionary theory, cognitive neuroscience, human-computer interaction, and robotics. (Same as LING 418, PHIL 418, and SPLH 418.) Prerequisite: Consent of instructor. LEC

PSYC 420 Fundamentals of Personality (3). S Clinical application of personality theories; personality development and assessment research. Prerequisite: PSYC 104. LEC

PSYC 422 Intelligence and Cognition (3). S A survey of the relationship of individual variation in intelligence to contemporary cognitive theory. Discussion is included of procedures for identifying measurable aspects of intelligence and for measuring individual cognitive variation. Prerequisite: PSYC 104. LEC

PSYC 427 Introduction to Psychological Measurement (3). S An introduction to the basic methods used in measuring psychological variables, constructs, traits, and attitudes via item inventories. Concepts to be covered include reliability, validity, and item analysis. As part of the course requirements, students will have the opportunity to create and critique an original psychological inventory. Prerequisite: PSYC 104 or equivalent, and PSYC 300 or equivalent. LEC

PSYC 430 Cognitive Development (3). S A basic survey course in the development of thinking and understanding in normal children. The course will cover Piaget's theory and information processing theories at the advanced undergraduate level. Topics include perception, attention, learning, memory, language, problem solving, and individual differences from birth to the mid-teens. Prerequisite: PSYC 104 or ABSC/HDFL 160. LEC

PSYC 432 Human Behavioral Genetics (3). S A survey of human behavioral genetics for upper division undergraduates. Emphasis is on how the methods and theories of quantitative, population, medical, and molecular genetics can be applied to individual and group differences in humans. Both normal and abnormal behaviors are covered, including intelligence, mental retardation, language and language disorders, communication, learning, personality, and psychopathology. (Same as ANTH 447, BIOL 432, SPLH 432.) Prerequisite: Introductory courses in biology/genetics or biological anthropology and psychology are recommended. LEC

PSYC 435 Social and Personality Development (3). S An introduction to social and personality development with consideration of both classic and contemporary theoretical viewpoints. The role of social contexts is considered (e.g., family, peers, communities), as well as biological influences (e.g., behavioral genetics). Topics include parent-infant attachment, peer relationships, aggression, etc. Prerequisite: PSYC 104. LEC

PSYC 440 The Afro-American Family: A Psychological Approach (3). S The examination of the structure, values, and behavior patterns of the contemporary Afro-American family as influenced by African cultures and kinship systems and the institution of slavery in association with other factors. Social and psychological forces that have enhanced or blocked family survival, stability, and advancement will be explored. The orientation to black family life will emphasize its strengths, weaknesses, adaptations, strong kinship bonds, and equalitarian family roles. (Same as AAAS 440.) LEC

PSYC 449 Laboratory/Field Work in Human Biology (1-3). N Faculty supervised laboratory or field research for Human Biology majors. Students design and complete a research project in collaboration with a Human Bi-

It is the responsibility of each student to meet degree requirements.

To earn an undergraduate degree from KU, all students entering KU in fall semester 2003 and after must earn a minimum of 45 credit hours in courses numbered 300 and above.

ology faculty member. (Same as ANTH 449, BIOL 449, and SPLH 449.) Prerequisite: Consent of instructor and Human Biology major. FLD

PSYC 453 Psychological Foundations of Musical Behavior (3). S Study of human musical behavior, including basic psychoacoustic phenomena, musical taste, functional music, musical ability, cultural organization of musical sounds, and the affective response. Prerequisite: General Psychology, MEMT 370, or consent of instructor. LEC

PSYC 460 Honors in Psychology (1-2). SA seminar for juniors and seniors in the Honors Program in Psychology. Students who have been admitted to the Honors Program in Psychology may enroll for one credit for one or both semesters of their junior year and are required to enroll for two credits for both semesters in their senior year. IND

PSYC 465 Stereotyping and Prejudice Across Cultures (3). S This course will cover a variety of theoretical views concerning the origins of stereotypes, the factors that maintain them, as well as how and when the revision of such beliefs take place. Analysis of various stereotypes (including gender and race) and the experience of prejudice across a variety of cultural contexts will be examined. Many difficult social issues will be discussed in depth. Prerequisite: PSYC 360 or 361; or consent of instructor. LEC

PSYC 468 Psychology of Women (3). SA survey of the psychological theories about women; similarities and differences in behavior of women and men; the effects of biological and social factors on the behavior of women and men; and issues of concern to women of different races, sexual orientations, ages, and so forth. (Same as WS 468.) Prerequisite: PSYC 104 or WS 201. LEC

PSYC 470 Introduction to Contemporary Psychotherapies (3). S Review of current psychotherapies with special references to their underlying philosophies, theories of personality, techniques, and effectiveness. Issues concerning the use of drugs in the treatment of mental disorders are also reviewed. Prerequisite: PSYC 104. LEC

PSYC 472 Psychology of Sleep and Dreaming (3). S This course reviews recent evidence on the roles of dreaming and dreamless sleep. Psychological, developmental, personality, and social psychological aspects are considered. Prerequisite: PSYC 104. LEC

PSYC 475 Cognitive Neuroscience (3). S The neurobiology of higher mental processes such as perception, attention, learning, memory, thinking, and language, as studied by techniques such as recording from individual neurons, electrical brain stimulation, brain damage, and brain scans and measurements of regional cerebral blood flow in conscious people. Emphasis will be placed on in-class analysis of original research articles. Prerequisite: One of the following courses - PSYC 318, 319, 370, 371, 380, or 381; or consent of instructor. LEC

PSYC 480 Independent Study (1-5). U Investigation of a special research problem or directed reading in an area not covered in regular courses. No more than 3 hours of PSYC 480 may be counted toward the 30 hours required for the major. Prerequisite: Consent of instructor. IND

PSYC 481 Research Practicum (1-5). Guided participation in ongoing research programs to augment quantitative skills through direct practicum experience. No more than 3 hours of PSYC 481 may be counted toward the 33 hours required for the major. Prerequisite: PSYC 300 or PSYC 310 or consent of instructor. RSH

PSYC 482 Sensation and Perception (3). S Introduction to human sensory and perceptual capabilities. Topics include: sensory systems, perceptual development, and perceiving color, objects, space, movement, sound, speech, touch, smell, and taste as well as various perceptual illusions. Prerequisite: PSYC 104. LEC

PSYC 490 Theories and Concepts of Child Development (3). S An advanced course in the theories and basic concepts of child development. Coverage includes: (a) analyses of the general logic, assumptions, and principles of the five major approaches: normative-maturation, psychoanalytic, social learning theory, cognitive-developmental, and behavior analysis; (b) historical background of developmental theory; (c) social-cultural influences on theory construction; and (d) some cross-cultural perspectives. Not open to students previously enrolled in HDL 290. Prerequisite: PSYC 104, or HDL 160, HDL 161, HDL 432, or consent of instructor. LEC

PSYC 492 Psychology and Social Issues (3). SA study of psychological aspects of selected social issues in contemporary American society. Race relations and the civil rights movement. Political extremism. Public opinion and social change. Social psychological approaches to a variety of social problems. Prerequisite: PSYC 360 or 361, or consent of instructor. LEC

PSYC 500 Intermediate Statistics in Psychological Research (3). UA second course in statistics with emphasis on applications. Analysis of variance, regression, analysis, analysis of contingency tables; possibly selected further topics. Prerequisite: Grade of B or better in PSYC 300. LEC

PSYC 502 Human Sexuality (3). S An introduction to the field of human sexuality. Topics to be covered include sexual anatomy and physiology, fertilization, pregnancy, birth and lactation, contraception, human sexual response, sexuality across the life cycle, love, marriage, alternatives to marriage, sexual orientation, sex differences in behavior, parenthood, sexually transmitted diseases, sex and the law, and sex education. Prerequisite: PSYC 104. LEC

PSYC 506 Psychology and the Actor (3). H The relationship of psychological theory and empirical data to the actor's craft. Topics include theatrical and psychological motivation, social psychology of the actor, application of psychodynamics to character analysis, psychology of the act of acting, and personality of the actor. (Same as TH&F 506.) Prerequisite: PSYC 104 and TH&F 106, or permission of instructor. LEC

PSYC 510 Infant Behavior and Development (3). S General lecture course to survey the growing literature on factors that affect behavior and development of the human infant. Course will review current theoretical orientations to explain infant development. It will include the following: behavior of the newborn; normal behavioral repertoire that develops over the first two years; assessment of infant behavior by traditional testing as well as in laboratory settings; current knowledge and issues with regard to visual, auditory, receptive language, learning, and social behavior in infants. There will be discussions of the effects of intervention programs and of ethical issues. Prerequisite: ABSC/HDFL 160 or ABSC/HDFL 432 or PSYC 602. LEC

PSYC 511 Laboratory Research in Infant Behavior (3). S Optional course for students currently enrolled in PSYC 510 or may be taken after completion of PSYC 510. Will offer students practical experience in an infant research laboratory. Students must spend a minimum of nine hours a week (on three different half days) in laboratory. They will learn to observe and record infant behavior, to handle data from experiments and participate in the planning and discussion of laboratory research. Acquaintance with and involvement in the issues of obtaining informed consent and ethical aspects of infant research will be included. Prerequisite: Current enrollment or previous enrollment in PSYC 510 and consent of instructor. LAB

PSYC 518 Human Memory (3). S In-depth coverage of human memory phenomena, including phenomena concerning acquisition, storage and retrieval, unconscious forms of memory, memory monitoring and control, and practical aspects of memory such as autobiographical memory, mnemonic techniques and eyewitness memory. Prerequisite: PSYC 104. LEC

PSYC 520 Memory and Eyewitness Testimony in Children (3). SA review of the literature on the development of memory in young children, and the implications of this research for understanding children's eyewitness testimony. The course will present current research on children's long-term memory abilities, the impact of stress on recall performance, the effectiveness of various types of interviewing techniques, and the suggestibility of children's recollections. Policy issues and potential guidelines for the elicitation and evaluation of children's memory reports in both clinical and legal arenas will be discussed. Prerequisite: PSYC 104 or ABSC/HDFL 160, or consent of instructor. LEC

PSYC 531 Language Development (3). S Introduction to the study of language development; emphasis on the psychological processes underlying syntactic, semantic, and pragmatic aspects of language development in children. Prerequisite: One of the following courses - PSYC 318, 319, 333, or 334; or consent of instructor. LEC

PSYC 535 Developmental Psychopathology (3). SA review of the literature on contemporary psychological and developmental disorders of children and youth. Course will present current models of psychopathology, classification systems, assessment methods, and treatment approaches designed for the individual, the family, and the community. Specific attention will be given to age, gender, and cultural differences and similarities. Topics include: anxiety disorders, oppositional behavior disorders, physical/sexual abuse, learning disabilities, and autism. (Same as ABSC 535.) Prerequisite: ABSC/HDFL 160, PSYC 333, or consent of instructor. LEC

PSYC 536 The Psychology of Language (3). SA survey of recent research on psycholinguistics covering the perception, production, and comprehension of language. Topics include: the biological basis for language, the nature of comprehension processes, and memory for the syntactic, semantic, and pragmatic components of language. Prerequisite: One of the following courses - PSYC 318, 319, 333, or 334; or consent of instructor. LEC

PSYC 545 Culture and Psychology (3). S The course considers the relationship between culture and psyche. One theme throughout the course involves revealing the cultural grounding of psychological functioning. The second and complementary theme involves identifying the psychological processes involved in the phenomenon of culture. Prerequisite: PSYC 333, 334, 360 or 361 or consent of instructor. LEC

PSYC 550 Psychology of Reading (3). SA survey of psychological processes relevant to normal, adult reading, learning to read, and specific reading disabilities. These include visual perception and information processing, the structure of knowledge within the human memory system, and linguistic competence. Prerequisite: PSYC 318 or 319, or consent of instructor. LEC

PSYC 555 Evolutionary Psychology (3). SA review of evolutionary theory and its application to human personality, cognition, interpersonal relationships, family dynamics, and development. Prerequisite: PSYC 104 and at least 3 additional hours in Psychology, or consent of instructor. LEC

PSYC 565 Applied Developmental Psychology (3). SA advanced study of the application of theories and concepts of developmental and behav-

ioral psychology to a range of specific issues and problems of childhood and adolescence. This course will rely heavily upon the empirical research literature. Topics include contemporary social issues and child development, research in applied settings, assessment, intervention, and prevention, as well as program evaluation. (Same as ABSC 565.) Prerequisite: ABSC/HDFL 160 or PSYC 333, and ABSC/HDFL/ PSYC 535. LEC

PSYC 566 Psychology and the Law (3). S An application of psychological processes and concepts to the American legal system. Among the topics covered are the socialization of legal attitudes, opinions about the purposes of the criminal justice system and especially of prisons, the concept of "dangerousness," the nature of jury decision making, and the rights of prisoners, patients, and children. LEC

PSYC 570 Group Dynamics (3). S A study of the processes underlying the dynamics of the group, including the observation of group phenomena and a consideration of their relation to research findings. Prerequisite: PSYC 360 or 361, or consent of instructor. LEC

PSYC 571 Violence, Aggression, and Terrorism in the Modern World (3). S A psychological cultural analysis of the sources, dynamics, effects and practices in modern patterns of violence. Variations in psycho/social reactions to violence will be examined with reference to personal, social and cross-cultural characteristics. Particular attention will be given to the cultural and individual characteristics of people who successfully survive violence and terrorism targeted at them. Emphasis will be upon the psychological and cultural origins of terrorism and violence in modern societies. (Same as ANTH 571.) Prerequisite: Introductory course in anthropology or psychology. LEC

PSYC 572 Psychology and International Conflict (3). S A study of psychological approaches to analysis and intervention in the field of international conflict and peace-making. Focus on major contributions and important paradigms for explanation and action. Prerequisite: PSYC 360 or consent of instructor. Background study in international relations or recent world history desirable. LEC

PSYC 575 Psychology of HIV/AIDS (3). S This course examines psychological issues related to HIV and AIDS, with special emphasis on the past, current, and potential roles of psychology in the HIV epidemic. Course material is drawn from subdisciplines of psychology and related fields. Prerequisite: PSYC 104 and PSYC 300, or consent of instructor. LEC

PSYC 578 Social Attitudes (3). S An introduction to the study of attitudes focusing on problems of measurement and on empirical findings and theories of attitude acquisition and change. Prerequisite: PSYC 360, 361, or consent of instructor. LEC

PSYC 581 Psychology of Religion (3). S Consideration of the psychological antecedents of religious experience, the nature of religious experience, and the behavioral consequences of religion. Focus will be on psychological theory and research relevant to religious thought, feeling, belief, and behavior. (Same as REL 581.) Prerequisite: PSYC 104. LEC

PSYC 590 Nonverbal Communication (3). S Examination of non-linguistic behavior in human communication, including proxemics (spacing), kinesics (movement and expression), and paralinguistics (voice quality). Includes phylogenetic and developmental perspectives, methods of analysis, applications to interpersonal problems. (Same as COMS 590.) Prerequisite: COMS 356 or PSYC 300. LEC

PSYC 592 Psychological Significance of Physical Illness and Disability (3). S A lecture course to help students become more aware of and responsive to the psychological needs of persons with physical illnesses or disabilities. Emphasis is upon the meanings of such conditions in individuals' lives and the effects of treatment and rehabilitation settings on psychological adaptation. Prerequisite: PSYC 104. LEC

PSYC 602 Basis and Nature of Individuality (3). S Individuality in cognitive and personality attributes is surveyed, and analyzed by current psychological theory. The course includes topics on the structure of intellect and personality, cognitive theory, brain research and behavior genetics as relevant to the understanding of individuality. Prerequisite: An introductory course in psychology. LEC

PSYC 604 Psychological Tests (3). S A survey of psychological tests and testing methods. Critical evaluation in the light of history and theory of psychology. Prerequisite: PSYC 104. LEC

PSYC 605 Health Psychology (3). S Review of research and theory concerning the role of psychological factors in the development of physical illness and the contribution of psychologists to the treatment and prevention of physical illness. Prerequisite: PSYC 104. LEC

PSYC 608 Sex Role Development (3). S An examination of the theory and literature on sex role development in childhood, adolescence, and adulthood. Particular attention is given to approaches stressing androgyny and variations on traditional roles. Processes of socialization into both traditional and non-traditional roles are stressed. Literature on females is emphasized, but male sex role development is also covered. Prerequisite: PSYC 104 or HDFL 160. LEC

PSYC 610 Advanced Personality (3). S A survey of selected topics in the area of personality (e.g., defense mechanisms, aggression, interpersonal relations). Prerequisite: PSYC 120 or PSYC 420 or consent of instructor. LEC

PSYC 613 History and Systems in Psychology (3). S A survey of the historical development of modern theoretical systems in psychology. Prerequisite: PSYC 104, plus twelve hours in psychology. LEC

PSYC 614 Basic Processes of Visual Perception (3). S An examination of current theories and experimentation in perception, with some historical perspective. Prerequisite: PSYC 104. LEC

PSYC 616 Foundations of Learning (3). S A consideration of experimental findings and theories concerning classical and instrumental conditioning. Prerequisite: PSYC 104. LEC

PSYC 618 Experimental Psychology: Human Learning (6). S Lectures and laboratory research on human information processing as related to theories of word recognition, reading, and language comprehension. Major emphasis on experimental design, data analysis, interpretation, and scientific writing. Prerequisite: PSYC 104 and PSYC 300. LEC

PSYC 620 Experimental Psychology: Sensation, Perception, and Cognition (6). S Lectures and laboratory work on human sensory processes and how they result in perceptions of the environment. Experience is provided in designing and implementing research as well as in the skills necessary for statistical analysis, interpretation of data, and scientific writing. Prerequisite: PSYC 104 and PSYC 300. LEC

PSYC 622 Experimental Psychology: Social Behavior (6). S Lectures, laboratory and field work on various issues in research in social psychology (e.g., conformity, attitude change, social processes). Two two-hour periods a week and appointment for research. Prerequisite: PSYC 104, PSYC 360, and PSYC 300. LEC

PSYC 624 Experimental Psychology: Clinical Psychology (6). S Lectures and laboratory research on contemporary issues in clinical psychology. Emphasis on experimental design, data analysis, interpretation of data, and scientific writing. Prerequisite: PSYC 104 and PSYC 300. LEC

PSYC 626 Psychology of Adolescence (3). S Impact of factors of social environment and physical growth upon psychological development from puberty to young adulthood. (Same as ABSC 626). Prerequisite: PSYC 104, PSYC 333, or HDFL/ABSC 160. LEC

PSYC 630 Clinical Psychology (3). S The historical and empirical foundations of clinical psychology. Significant trends in theory, research, and social organization which have shaped clinical practice. A review of clinical practice. Prerequisite: PSYC 104. LEC

PSYC 632 Advanced Child Behavior and Development (3). S An advanced course in child development that includes a survey of the field's principles and theoretical approaches, and current issues in research and practice. Topics will include: prenatal development, cognition and language, social-emotional development, socialization influences in childhood, developmental psychopathology, and social policies. (Same as ABSC 632.) Prerequisite: ABSC/HDFL 160, PSYC 333, or instructor permission, and senior or graduate status. LEC

PSYC 642 The Psychology of Families (3). S Study of the family as a psychosocial system. Emphasis is placed on factors affecting contemporary families including family structures, development, communication patterns, disorders, and treatment approaches. Theory, empirical evidence, and practical principles that may lead to maximizing individual growth in the family unit are discussed. Prerequisite: PSYC 104. LEC

PSYC 652 Behavior Therapy (3). S A review of the principal techniques of behavior therapy, exclusive of operant-based therapies. Emphasis upon systematic desensitization, implosion, assertion training, and modeling techniques. Special attention given to outcome research relevant to the effectiveness of these techniques. Recommended: A course in abnormal psychology. Prerequisite: PSYC 104. LEC

PSYC 660 Values and Caring (3). S Exploration of the psychological implications of caring for or valuing oneself, experiences, other people, ideas, and causes. Topics include the nature, sources, and consequences of values, as well as their relation to goals, emotions, motives, and behavior. LEC

PSYC 662 Industrial and Organizational Psychology (3). S An examination of the psychological aspects of work and organizational life including study of theory and application in areas of motivation, performance, well-being, leadership, group, and organization environments. Special attention to theory and method in selection, training, and organization development. Project work. An introductory course in statistics is recommended. Prerequisite: PSYC 104. LEC

PSYC 668 Fundamentals of Psychoanalytic Psychology (3). S A general survey of the principles of psychoanalysis as a psychological system. Prerequisite: PSYC 104. LEC

PSYC 670 Theories of Personality (3). S Traces the development of modern approaches to the understanding of personality and examines in detail the major theoretical systems proposed to explain personality structure and dynamics. Prerequisite: PSYC 104. LEC

PSYC 678 Drugs and Behavior (3). S A survey of the methods used to study the effects of drugs on behavior, and of the effect of selected drugs on behavior, particularly the narcotics, hallucinogens, and drugs used in the treatment of mental illness. Prerequisite: PSYC 104. LEC

PSYC 685 Human Factors Psychology (3). S Research techniques and methods useful in quantifying parameters of human performance that affect system functioning. Special emphasis is placed on model-

ing visual, auditory, and orienting systems and on human information processing. Prerequisite: PSYC 300 or consent of instructor. LEC

PSYC 690 Seminar: ____ (1-5). U Discussion of current problems in psychological theory and research. Prerequisite: Consent of instructor. LEC

PSYC 691 The Psychology of Aging (3). S Social, psychological, and economic adjustments required by aging; changes in cognition, role and personality necessitated by advancing age. Prerequisite: PSYC 300 or 301 and one of the following - PSYC 318, 319, 350, 351, 360, 361, 370, 371, 380, or 381; or graduate standing; or consent of instructor. LEC

PSYC 704 Research Practicum in Clinical Child Psychology (3).

PSYC 706 Special Topics in Clinical Child Psychology: ____ (3).

PSYC 710 Feminist Issues in Psychology (3).

PSYC 723 Advanced Cognitive Psychology (3).

PSYC 725 Cognitive Neuroscience (3).

PSYC 735 Psycholinguistics (3).

PSYC 737 Topics in Psycholinguistics (3).

PSYC 750 Advanced Seminar in Gender Identity and Sexual Orientation (3).

PSYC 757 Theories of Perception (3).

PSYC 766 Forensic Psychology (3).

PSYC 774 Advanced Social Psychology I (3).

PSYC 775 Advanced Social Psychology II (3).

PSYC 777 Social Psychology: Theory, Research, and Clinical Applications (3).

PSYC 779 Physiological Aspects of Health and Disease (3).

PSYC 782 Research Methods in Child Language (3).

PSYC 784 Proseminar in Communication and Aging (1).

PSYC 787 Gerontology Proseminar (3).

PSYC 790 Statistical Methods in Psychology I (3).

PSYC 791 Statistical Methods in Psychology II (3).

PSYC 792 Computer Analysis of Psychological Data (3).

PSYC 795 Computing and Psychology (3).

PSYC 796 Computer Models of Brain and Behavior (3).

PSYC 797 Advanced Programming Techniques for Psychological Research (3).

PSYC 798 Introduction to Mathematical Methods in Psychology (3).

PSYC 799 Proseminar in Child Language (2).

Public Administration

Chair: John Nalbandian, nalband@ku.edu

Blake Hall, 1541 Lilac Lane, Room 325

Lawrence, KS 66045-3177

(785) 864-3527, www.ku.edu/~kupa

Degrees offered: B.A., B.G.S., M.P.A., Ph.D.

Majors

The undergraduate program in public administration is designed for students who have earned an associate's degree or equivalent hours and wish to complete the final two years necessary for a bachelor's degree. It is offered on KU's Edwards Campus in Overland Park.

The program gives graduates the knowledge necessary to understand how government programs are initiated and carried out. It enables graduates to look at government from the eyes of citizens familiar with both the political and administrative workings of public institutions. It emphasizes leadership, exploration of diverse problems in a diverse world, how public policy is made and implemented, and how programs are created and services are delivered. The department approaches this degree as a liberal arts major seeking to place the administrative workings of government in a larger picture of political values and community-building. As students learn to think critically and analytically about public policy and program implementation, they better understand the dynamics in their own communities and how to be more effective citizens and public officials.

Requirements for the B.A. or B.G.S. Major. Students must complete 27 credit hours for the major in public administration. At least 12 hours must be numbered 500 and above.

Required Courses (9 hours)

PUAD 330/331 Introduction to Public Administration 3

PUAD 332 Quantitative Methods for Public Administration 3

PUAD 333 Hard Choices in Public Administration: ____ 3

Elective Courses (18 hours minimum). Choose from the following:

PUAD 430 Experts, Elected Officials, and Citizens (3)

PUAD 431 Bureaucracy, Public Administration, and the Private Sector (3)

PUAD 432 Conducting the People's Business Ethically (3)

PUAD 433 Metropolitan and Macroproblems: The American City in Local and Global Context (3)

PUAD 601 Crime and Punishment (3)

PUAD 602 Diversity in Public Administration (3)

PUAD 603 The Nonprofit Sector: Formation, Leadership, and Governance (3)

PUAD 639 Concepts of Civil Society (3)

PUAD 640 Public Service Leadership Practicum (3)

PUAD 641 Public Service Leadership (3)

PUAD 695 Public Service Leadership Field Research Report (3)

● Public Administration Courses

PUAD 330 Introduction to Public Administration (3). S Survey of public administration, focusing on bureaucratic organizations, the democratic context of public organizations, bureaucratic politics, public management, personnel, budgeting, and inter-governmental relations. (Same as POLS 330). Prerequisite: POLS 110. LEC

PUAD 331 Introduction to Public Administration, Honors (3). S Survey of public administration for honor students, focusing on bureaucratic organizations, the democratic context of public organizations, bureaucratic politics, public management, personnel, budgeting, and inter-governmental relations. (Same as POLS 331.) Prerequisite: POLS 110. LEC

PUAD 332 Quantitative Methods for Public Administration (3). S Focuses on building the research analysis skills of students in public administration. Students learn research design, basic and intermediate statistics, and develop skills in forecasting, cost-benefit analysis, and the use of other quantitative analysis tools. Prerequisite: PUAD 330 or PUAD 331. LEC

PUAD 333 Hard Choices in Public Administration: ____ (3). S Focuses on some of America's most vexing public policy challenges and emphasizes the historical and cultural context of difficult choices. Students learn to use and understand relevant research and analysis, and how to apply analysis to make policy judgments. Public policy topics vary across semesters and can include topics such as stem-cell research, urban/regional transportation, school funding, global warming, and international conflicts. May not be repeated for credit toward the major. Prerequisite: PUAD 330 or 331, and PUAD 332, or consent of instructor. LEC

PUAD 430 Experts, Elected Officials, and Citizens (3). S Deals specifically with the concepts of professionalism and expertise, as well as the challenges they pose for democratic concepts of representation, participation, social equity, and individual rights. The relations between administrative agencies and the various roles citizens occupy in our administrative arena are also examined. Attention is devoted to citizens as clients, advocates, antagonists, employees, and wards or captives. Prerequisite: PUAD 330 or PUAD 331, and PUAD 332. LEC

PUAD 431 Bureaucracy, Public Administration, and the Private Sector (3). S Examines the problems posed by behaviors within and by bureaucracies. Provides students with a set of conceptual tools for understanding the organizational environment in which policy analysts ply their profession and the role of a manager within such organizations. Offers strategies for the policy professional seeking to navigate large bureaucracies. Readings and class discussions integrate theoretical analyses of organizations with detailed case studies. Prerequisite: PUAD 330 or PUAD 331, and PUAD 332. LEC

PUAD 432 Conducting the People's Business Ethically (3). S Addresses the moral challenges facing leaders in the public and non-profit sectors. Examines the values and virtues important to sustained ethical leadership, as well as strategies to build strong institutional cultures and support ethical practices in institutions. Considers moral and political theory by focusing on contemporary cases and issues. Students learn how to identify moral issues in public life and public management. There is a special focus on the integration of moral concerns into public discussion in a manner that contributes to good policy and does not polarize issues. This course considers moral and political theory by focusing on contemporary cases and issues. Prerequisite: PUAD 330 or PUAD 331, and PUAD 332. LEC

PUAD 433 Metropolitan and Macroproblems: The American City in Local and Global Context (3). S An interdisciplinary study of American cities, focusing on the rapidly changing demographic, physical, political, social, and economic changes. Sunbelt cities, edge cities, the rustbelt cities, planned and unplanned suburban communities, as well

The undergraduate program in public administration is designed for students who have earned an associate's degree or equivalent hours and wish to complete the final two years necessary for a bachelor's degree.

For information about the KU Edwards Campus, 12600 Quivira Rd., Overland Park, KS 66213-2402, call (from Lawrence): 864-8400 or (913) 897-8400, Web site: <http://edwardscampus.ku.edu>.

as declining center cities and newly revitalized downtowns are considered. The role of immigration and migration in reshaping the urban environment, and the effects of globalization are also examined. Prerequisite: PUAD 330 or PUAD 331, and PUAD 332. LEC

PUAD 601 Crime and Punishment (3). S Examines the administration of justice and focuses on differential and discriminatory treatment in policing, criminal prosecutions, trials, sentencing, or imprisonment. Also considered are the basis and impact of racial profiling, harassment, arbitrary detention, and abusive treatment of members of racial and ethnic groups, immigrants, and/or other vulnerable groups by law enforcement, and disparate treatment by prosecutors and the courts. Prerequisite: PUAD 330 or PUAD 331, and PUAD 332. LEC

PUAD 602 Diversity in Public Administration (3). S Analyzes diversity and leadership in public and private institutions along ethnic, racial, and gender lines and the challenges of the facilitation of open dialogue on diversity. Examines the political, historical, social, and economic reasons why Americans of different ethnic, racial, and gender groups hold divergent views about major public policy areas, as well as fundamental views about democratic participation. Prerequisite: PUAD 330 or PUAD 331, and PUAD 332. LEC

PUAD 603 The Nonprofit Sector: Formation, Leadership, and Governance (3). S A political economy perspective is used to analyze the forces that shape the rise and characteristics of the nonprofit sector. The social history of the nonprofit sector in the U.S. is examined. The legal and policy environments are explored and the distinct organizational forms are examined. A comparative perspective is provided between the U.S. and other countries. Emphasis on various patterns of community action for attaining social welfare objectives; research and field experience directed toward study of social problems within context of community planning; and emerging patterns of physical, economic, and social planning within the framework of social change theory. Prerequisite: PUAD 330 or PUAD 331, and PUAD 332. LEC

PUAD 639 Concepts of Civil Society (3). U Concepts of community, social capital, and civil capacity building, and their relations to effective community functioning, democratic politics, and administrative expertise. LEC

PUAD 640 Public Service Leadership Practicum (3). U A community-based public service practicum, ordinarily in the summer between the junior and senior years of study. Other government or community internships may count toward the minor. LEC

PUAD 641 Public Service Leadership (3). U Concepts of leadership in community, political, and administrative settings. These settings include government and all non-business organizations (e.g. certain for-profit organizations). LEC

PUAD 693 Directed Readings (1-3). U Designed to meet the needs of advanced undergraduate students whose study in public administration cannot be met with current course work. Enrollment in directed readings is advised only when a topic of interest is not covered in the curriculum. Intended for students majoring in Public Administration. Prerequisite: Consent of instructor. IND

PUAD 694 Topics in Public Administration: ____ (3). U Study of selected topics in public administration. Course may be repeated for credit if content varies. LEC

PUAD 695 Public Service Leadership Field Research Report (3). U A faculty supervised field research paper based on a problem or case from the student's public service practicum or internship and integrating the practicum with theoretical issues regarding public service. IND

Religious Studies

Acting Chair: Timothy Miller
Smith Hall, 1300 Oread Ave., Room 103
Lawrence, KS 66045-7615
(785) 864-4663, www.ku.edu/~rstudies

Degrees offered: B.A., B.G.S., M.A.

The academic study of religion acquaints the student with religion as an important phenomenon within the human experience; examines the forms in which religious experience has been described, organized, and practiced in history and in varying cultures; analyzes the interaction of religion with social institutions and areas of personal and group experience; focuses on religions as expressions of meanings and values in the context of what is perceived as ultimate; and introduces the student to appropriate methods for the objective study of religion.

Majors

The curriculum is organized into the basic areas of Western, Eastern, and North American religions, and method and theory in the study of religion. A core of courses provides broad exposure to the range of issues, perspectives, and methods in the study of religion. The program encourages interdepartmental and interdisciplinary cooperation as part of a comprehensive program in religion. This cooperation is reflected at the undergraduate level in cross-listed and cross-referenced courses and in the design of the major.

Requirements for the B.A. or B.G.S. Major. The major consists of at least 27 hours in religious studies. Fifteen hours must be in courses numbered 300 and above, and 8 of these junior/senior hours must be completed in residence at KU. The 27 hours may include no more than 12 transfer hours, no more than 12 hours from study abroad and no more than 15 hours in combination of the two.

Forms are available in the department office to help students select courses. The program should be planned with the advice of a religious studies faculty member. Every major must meet these requirements:

- Every major must take these courses:
 - REL 104 Introduction to Religion **or** REL 105 Introduction to Religion, Honors **or** REL 304 Introduction to Religion
 - REL 124 Understanding the Bible **or** REL 125 Understanding the Bible, Honors **or** REL 324 Understanding the Bible
 - REL 601 Approaches to the Study of Religion (during the senior year)
- Students must take one of the following courses that provide an overview of Judaism, Christianity, or Islam:
 - REL 107 Living Religions of the West
 - REL 109 Living Religions of the West, Honors
 - REL 307 Living Religions of the West
 - REL 311 Hebrew Scriptures (Old Testament in English)
 - REL 315 History & Literature of Early Christianity
 - REL 320 History of Judaism in the West
 - REL 321 History of Judaism in the East
 - REL 324 Understanding the Bible
 - REL 325 Introduction to Judaism
 - REL 345 Christianity
 - REL 350 Islam
 - REL 570 Studies in Judaism
- Students must take one of these courses that provide an overview of a religious tradition other than Judaism, Christianity, or Islam:
 - REL 106 Living Religions of the East
 - REL 108 Living Religions of the East, Honors
 - REL 306 Living Religions of the East
 - REL 360 The Buddhist Tradition in Asia/
EALC 331 Studies in the Buddhist Tradition in Asia
 - REL 507 Religion in India
 - REL 508 Religion in China
 - REL 509 Religion in Japan
- Students must take one of the following courses that focus on religion in North America:
 - REL 171 Religion in American Society
 - REL 172 Religion in American Society, Honors
 - REL 330 Native American Religions
 - REL 339 History of Religion in America
 - REL 372 Religion in American Society
 - REL 373 The Supreme Court & Religious Issues in the United States
 - REL 375 The Supreme Court & Religious Issues in the United States, Honors
 - REL 585 New Religious Movements (Western)
 - REL 586 New Religious Movements (Non-Western)
 - REL 671 American Communes

Students entering the College in fall 1987 or after and pursuing a B.G.S. must complete a junior/senior concentration of 9 hours. Students planning to concentrate in religious studies should take one course each in areas 2, 3, and 4 above.

Requirements for the Minor. The minor requires 18 hours (12 hours at the junior/senior level), as follows: REL 104 Introduction to Religion **or** REL 105 Introduction to Religion, Honors **or** REL 304 Introduction to Religion

One course from area 2 above that provides an overview of Judaism, Christianity, or Muslim traditions

One course from area 3 above that provides an overview of a religious tradition other than Judaism, Christianity, or Islam

One course from area 4 above, on religion in North America

Six additional religious studies hours at the 300 level or above

Honors. To be eligible for honors in religious studies, a student must have a minimum grade-point average of 3.25 overall and of 3.5 in the department. Successful completion of honors includes an independent research project. Honors sections are offered in selected courses. Interested students should confer with the departmental honors adviser. A description of the program is available at the department office.

Career Opportunities

The major or concentration provides both an enriching focus in liberal education and a basis for graduate or professional study. A major in religious studies may be combined with majors in education, journalism, or other fields to prepare for career specialization.

Jewish Studies Minor

Requirements for the Minor. The minor requires 18 credit hours with at least 12 hours numbered 300 or above. To satisfy the minor requirements, students must complete the equivalent of the second year of Hebrew in addition to meeting the course requirements below.

An additional 15 credit hours from at least three different departments are required. Courses to meet this requirement are to be selected from the list of courses below or other appropriate courses at KU or abroad approved by the Jewish studies adviser.

AMS 494 Studies in American Jewish Culture
 AMS 522/SOC 522 American Racial & Ethnic Relations
 ENGL 203 Topics in Reading & Writing: Holocaust Literature
 ENGL 336 Jewish American Literature & Culture
 ENGL 536 Readings in the Holocaust
 HEBR 310 Introduction to Modern Hebrew Literature
 HEBR 320 Introduction to Classical Hebrew Literature
 HIST 343 The Holocaust in History
 HIST 510 Topics in Medieval Jewish History
 HIST 553 Muslims, Christians, & Jews in Medieval Iberia
 HIST 660 Biography of a City: Jerusalem
 REL 107/REL 109/REL 307 Living Religions of the West
 REL 124/REL 125/REL 324 Understanding the Bible
 REL 171/REL 172/AMS 290/REL 372 Religion in American Society
 REL 320 History of Judaism in the West
 REL 321 History of Judaism in the East
 REL 325 Introduction to Judaism
 REL 376 American Judaism: Life & Thought
 REL 377 Religion & Moral Decisions
 REL 500 Readings in Non-English Religious Texts
 REL 512 Prophecy, Poetry, & Story in the Hebrew Bible (Old Testament)
 REL 523 The Dead Sea Scrolls
 REL 525 Jews & Christians in Greco-Roman Antiquity
 REL 526 Jewish History & Literature in the Greek & Roman Periods
 REL 570 Studies in Judaism
 REL 775 Seminar in Religion & Society in the West: Zionism & Israel in Modern Jewish Religion

At least 3 credit hours of independent research must be undertaken as a departmental course or as a Jewish studies course in which a student does an independent research project at KU or abroad under the supervision of the Jewish studies adviser. All independent study credits toward the minor need the approval of the Jewish studies adviser.

● Hebrew Courses

HEBR 110 Elementary Israeli Hebrew I (5). U A beginning course in modern Israeli Hebrew. Essentials of grammar; conversational practice; easy reading; elementary composition; use of the language laboratory. Not open to fluent speakers of Hebrew. LEC

HEBR 120 Elementary Israeli Hebrew II (5). U A continuation of HEBR 110. Not open to fluent speakers of Hebrew. Prerequisite: HEBR 110. LEC

HEBR 210 Intermediate Israeli Hebrew I (3). U Further development of language skills, plus reading of and discussion of literary texts. Not open to fluent speakers of Hebrew. Prerequisite: HEBR 120. LEC

HEBR 220 Intermediate Israeli Hebrew II (3). U A continuation of HEBR 210. Not open to fluent speakers of Hebrew. Prerequisite: HEBR 210. LEC

HEBR 310 Introduction to Modern Hebrew Literature (3). U An introduction to Hebrew literature from the nineteenth through the twentieth centuries. The emphasis is on the development of basic interpretive skills, as well as an understanding of basic literary movements, genres, and concepts of this period. Not open to native speakers of Hebrew. Prerequisite: HEBR 220 or equivalent. LEC

HEBR 320 Introduction to Classical Hebrew Literature (3). U An introduction to Hebrew literature from the early post-biblical period through the Middle Ages. The emphasis is on the development of basic interpretive skills, as well as an understanding of basic literary movements, genres, and concepts of this period. Not open to native speakers of Hebrew. Prerequisite: HEBR 220 or equivalent. LEC

HEBR 453 Investigation and Conference: ____ (1-3). U Independent study and directed reading on special topics. Permission of the instructor who will supervise the student's work is required. Not open to native speakers of Hebrew. Prerequisite: HEBR 200 or equivalent. IND

HEBR 500 Biblical Hebrew (3). U This course introduces students to the grammatical structure and vocabulary of biblical Hebrew. It includes basic biblical texts for students to translate into English and to analyze. Prerequisite: One year of Israeli Hebrew, its equivalent, or permission of instructor. LEC

HEBR 501 Biblical Hebrew II (3). U This is a continuation of Hebrew 500. It continues a study of the grammatical structure and vocabulary of biblical Hebrew and includes biblical texts for translation and analysis. Prerequisite: HEBR 500 or permission of instructor. LEC

● Jewish Studies Courses

JWSH 490 Directed Study in Jewish Studies (3). H Investigation of a special topic or project selected by the student with advice, approval, and supervision of the faculty adviser in Jewish Studies. Such study may take the form of directed reading or special research. Regular reports to and conferences with the adviser are required. A final research report will be required. Course may be taken more than once; total credit not to exceed 6 hours. Open only to students pursuing a minor in Jewish Studies. IND

JWSH 491 Directed Study in Jewish Studies, Honors (3). H Required for Honors in the minor. The honors version of JWSH 490. Open only to students pursuing a minor in Jewish Studies. IND

● Religious Studies Courses

REL 104 Introduction to Religion (3). HR H Religion approached as search for meaning. Personal and social interpretation of life and death. The study proceeds by examination of autobiography, institutions, symbols, scriptures, literature, world-views, values. Modern critiques of religion, secular faiths, and religious pluralism are included. Not open to students who have taken REL 105 or REL 304. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of the courses (REL104/REL 304) may not take the other. LEC

REL 105 Introduction to Religion, Honors (3). HR H Religion approached as search for meaning. Personal and social interpretation of life and death. The study proceeds by examination of autobiography, institutions, symbols, scriptures, literature, world-views, and values. Modern critiques of religion, secular faiths, and religious pluralism are included. Open only to students in the University Honors Program or by permission of instructor. Not open to students who have taken REL 104 or REL 304. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of the courses (REL 104/REL 304) may not take the other. LEC

REL 106 Living Religions of the East (3). HR,NW H/W A basic introduction to religion in India, China, and Japan with emphasis upon religions that affect the modern period. Not open to students who have taken REL 108/EALC 108 or REL 306. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of the courses (REL 106/REL 306) may not take the other. (Same as EALC 105.) LEC

REL 107 Living Religions of the West (3). HR H A basic introduction to the major religious traditions of the Near East, Europe, and the Americas, with an emphasis on their development through the modern period and their expressions in contemporary life. Not open to students who have taken REL 109 or REL 307. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of these courses (REL 107/REL 307) may not take the other. LEC

REL 108 Living Religions of the East, Honors (3). HR,NW H A basic introduction to religion in India, China, and Japan, with emphasis upon religions that affect the modern period. Open only to students in the University Honors Program or by permission of instructor. Not open to students who have taken REL 106/EALC 105 or REL 306. Additional

A minor in Jewish studies is available through religious studies.

Interdisciplinary cooperation is an important part of the religious studies program at KU.

Twenty-five KU students have become Rhodes scholars since the beginning of the program.

readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of the courses (REL 106/REL 306) may not take the other. (Same as EALC 108.) LEC

REL 109 Living Religions of the West, Honors (3). HR H A basic introduction to the major religious traditions in the Near East, Europe, and the Americas, with an emphasis on their development through the modern period and their expressions in contemporary life. Open only to students in the University Honors Program or by permission of instructor. Not open to students who have taken REL 107/REL 307. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of the courses (REL 107/307) make not take the other. LEC

REL 124 Understanding the Bible (3). HR H An introduction to the literature of the Bible, exploring the relationships among the various types of literature present and the function of each type in the history and religious life of the people who produced and used them. Cannot be taken concurrently with REL 311 or REL 315. Not open to students who have taken REL 125 or REL 324. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of the courses (REL 124/REL 324) may not take the other. LEC

REL 125 Understanding the Bible, Honors (3). HR H An introduction to the literature of the Bible, exploring the relationships among the various types of literature present and the function of each type in history and religious life of the people who produced and used them. Open only to students in the University Honors Program or by permission of instructor. Not open to students who have taken REL 124 or REL 324. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of the courses (REL 124/REL 324) may not take the other. LEC

REL 130 Myth, Legend, and Folk Belief in East Asia (3). NW A survey of the commonly held ideas about the beginning of the world, the role of gods and spirits in daily life, and the celebrations and rituals proper to each season of the year. The purpose of the course is to present the world view of the ordinary peoples of East Asia in contrast to their more sophisticated systems and philosophy which are better known to the Western world. (Same as ANTH 293, EALC 130, and HWC 130.) LEC

REL 171 Religion in American Society (3). HR H A broad introduction to religion in American culture. This class emphasizes the well-established religions with large followings (viz. Judaism, Catholicism, Eastern Orthodoxy, and Protestantism). Some attention is also given to other religions active in America. Other topics covered include the relationship of church and state, religion in ethnic and racial minority groups, and women and religion. Not open to students who have taken REL 172 or REL 372. (Same as AMS 290.) LEC

REL 172 Religion in American Society, Honors (3). HR H Honors version of REL 171. A broad introduction to religion in American culture. This class emphasizes the well-established religions with large followings (viz. Judaism, Catholicism, Eastern Orthodoxy, and Protestantism). Some attention is also given to other religions active in America. Other topics covered include the relationship of church and state, religion in ethnic and racial minority groups, and women and religion. Not open to students who have taken AMS 290 or REL 372. Open only to students in the University Honors Program or by permission of instructor. LEC

REL 200 Study Abroad Introductions to: _____ (1-4). H This course is designed for the study of special topics in Religious Studies. Credit for course work must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

REL 304 Introduction to Religion (3). HR H A more intensive treatment of the content of REL 104. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have taken one of the courses (REL 104/REL 304) may not take the other. Not open to students who have taken REL 104 or REL 105. LEC

REL 306 Living Religions of the East (3). HR,NW H A more intensive treatment of the content of REL 106. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who have had one of the courses (REL 106/REL 306) may not take the other. Not open to students who have taken REL 106/EALC 105 or REL 108/EALC 108. (Same as EALC 306.) LEC

REL 307 Living Religions of the West (3). HR H A more intensive treatment of the content of REL 107. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who take one of the courses (REL 107/REL 307) may not take the other. Not open to students who have taken REL 107 or REL 109. LEC

REL 311 Hebrew Scriptures (Old Testament in English) (3). H/W A study of the development of the Hebrew Bible from its earliest stages of oral tradition to its canonization with an emphasis on the relationship of the historical, intellectual, and cultural contexts shaping that development. Prerequisite: REL 124 or permission of instructor. LEC

REL 315 History and Literature of Early Christianity (3). H/W An examination of the literature produced by early Christians. In addition to New Testament texts, the course includes a broad range of diverse texts produced by early Christians, Jews, and others. Prerequisite: REL 124 or permission of instructor. LEC

REL 320 History of Judaism in the West (3). S A study of the transformation of Jewish thought, ritual practice, ethical standards, and moral behavior resulting from contact with Western societies and the Westernization of the Hebrew Bible during the Hellenistic period through the contemporary period in Europe and the Americas. LEC

REL 321 History of Judaism in the East (3). NW H/W A study of the transformation of Jewish thought, ritual, practice, ethical standards, and moral behavior resulting from the contact with societies of Asia from the creation of the Hebrew Bible as a Near Eastern document through modern Jewish societies in Asia and the Middle East. LEC

REL 324 Understanding the Bible (3). HR H A more intensive treatment of the content of REL 124. Additional readings and a paper are required for the 300 level course. The content overlaps sufficiently that students who take one of the courses (REL 124/REL 324) may not take the other. Not open to students who have taken REL 124 or REL 125. LEC

REL 325 Introduction to Judaism (3). H Describes certain Jewish customs, ceremonies, traditions, and folklore and examines the implications of their historical and contemporary meaning. LEC

REL 330 Native American Religions (3). NW H A survey of religious traditions among selected Native American peoples. Topics include religious freedom, ritual activity, cultural narrative ("myth") kinship, healing practices, ecology, government relations, impact of colonization, impact of missionization, contact between cultures, and secularization. LEC

REL 339 History of Religion in America (3). H Survey of the development of religious institutions and ideas in America from colonial times to the present. Emphasis is given to the mainstream religious traditions (Protestant, Catholic, Jewish), but attention is also paid to other phenomena, including nonwestern and native American religions. LEC

REL 341 Mysticism (3). H The nature of mystical experience and reflection as expressed in selected mystical literature of the world's religions. LEC

REL 342 Religion and Literature (3). H An examination of contemporary writings to explore the authors' presuppositions concerning the nature of God, the nature of human beings, the meaning of good and evil, the significance of human existence, and the means of attaining fulfillment or salvation. LEC

REL 345 Christianity (3). H An introductory examination of the history, doctrines, and practices of Christianity. Selected readings from the creeds, papal decrees, and major Christian theologians. LEC

REL 350 Islam (3). NW H/W Origins of Islam; the Prophet Muhammad; the Holy Koran; religious symbols and moral mandates; historical developments. (Same as AAAS 349.) LEC

REL 360 The Buddhist Tradition in Asia (3). NW H A historical and geographical survey of the Buddhist tradition from its origins in India to modern day developments in the three major regional Buddhist cultures of Southeast Asia, Tibet, and East Asia (China, Korea, and Japan). Prerequisite: Prior course work in Asian studies or permission of instructor. LEC

REL 371 Religion and Society in Tension (3). H Specific issues of conflict between the values of certain religious groups and those of the larger society. Includes problems of church and state, birth control and abortion, civil disobedience and dissent, education, war and peace, and "civil religion." LEC

REL 372 Religion in American Society (3). HR H A more intensive treatment of the content of REL 171. A broad introduction to religion in American culture. This class emphasizes the well-established religions with large followings (viz. Judaism, Catholicism, Eastern Orthodoxy, and Protestantism). Some attention is also given to other religions active in America. Other topics covered include the relationship of church and state, religion in ethnic and racial minority groups, and women and religion. Additional readings and a paper are required for the 300 level course. Not open to students who have taken AMS 290/REL 171 or REL 172. LEC

REL 373 The Supreme Court and Religious Issues in the United States (3). H Historical study of the interpretation of the religion clauses of the First Amendment with special reference to the questions of establishment, the free exercise of religion, freedom of religious belief, worship, and action, and religion and the public schools. Not open to freshmen. (Same as HIST 373.) LEC

REL 374 Religious Perspectives on Selfhood and Sexuality (3). H The nature of the self in its individual and social dimensions. Self experienced and expressed in sexuality. Survey of viewpoints in religious literature. LEC

REL 375 The Supreme Court and Religious Issues in the United States, Honors (3). H Historical study of the interpretation of the religion clauses of the First Amendment with special reference to the questions of establishment, the free exercise of religion, freedom of religious belief, worship, and action, and religion and the public schools. Open only to students in the University Honors Program or by permission of the instructor. (Same as HIST 375.) LEC

REL 376 American Judaism: Life and Thought (3). H A study of the conflicts between secularists and religionists, between Zionists and synagogue representatives, and the patterns of compromise in American Jewish life. Questions of Americanism and Jewish survival, support for the State of Israel, and the bureaucratic structure of rabbinical training and philanthropy in America will be raised. LEC

REL 377 Religion and Moral Decisions (3). H Introduction to religious viewpoints on individual and social ethics. Influence of religious thought on the making of moral decisions, and on value development. Examined in relation to specific moral issues. LEC

REL 378 Religion and Moral Decisions, Honors (3). H Honors version of REL 377. Introduction to religious viewpoints on individual and social ethics. Influence of religious thought on the making of moral decisions, and on value development. Examined in relation to specific moral issues. Open only to students who have been admitted to the University Honors Program or by permission of instructor. LEC

REL 380 Philosophical Issues in Religion (3). H This course will consider, from a philosophical perspective, some of the problems in religion which arise in the development of "Natural Theology" broadly conceived. (Same as PHIL 350.) LEC

REL 400 Study Abroad Special Topics: _____ (1-4). H This course is designed for the study of special topics in Religious Studies equivalent to courses at the 300 to 600 level at KU. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

REL 404 Undergraduate Seminar in Religion: _____ (1-3). H Topic, instructor, prerequisite and hours of credit to be announced in Timetable. Particular subject matter any given semester responding to student interest and taking advantage of special faculty competence. Class discussion, readings, and individual projects. LEC

REL 405 Directed Study in Religion (1-4). H Investigation of a special topic or project selected by the student with advice, approval, and supervision of an instructor. Such study may take the form of directed reading or special research. Individual reports and conferences. May be repeated, with maximum cumulative credit of four hours. Course taken for one hour of credit may not be used to fulfill College distribution requirement. Prerequisite: One previous course in religious studies at the University of Kansas and permission of instructor. IND

REL 406 Reading the Asian Religious Classics (3). H A close reading of classic texts of Asian religions in English translation, with emphasis on their construction and reception as sacred "scripture" in both their indigenous Asian contexts and in the post-colonial West. No prior knowledge of Asia is required, although some background is desirable. LEC

REL 425 Religion and Film (3). H An examination of the treatment of religious themes through the medium of film and an examination of the attitudes of religious organizations toward films and film production. Selected films will be viewed and analyzed from the perspectives taken within religious studies. LEC

REL 441 Myth, Symbol, and Ritual in Religion (3). H An examination of the role of mythology in world religions with particular attention to the symbols and rituals associated with each cycle of myths. LEC

REL 450 Popular Culture in the Muslim World (3). NW H A study of pop songs, television, comics, and other idioms of popular culture from different parts of the Muslim world, with attention to Muslims' sense of humor, tragedy, aesthetics, and pertinent issues of the day. (Same as AAAS 450.) LEC

REL 464 Visions in Art and Literature (3). H A study of the phenomenon of visions, their expression in various media, and theories of visionary experience from the humanities and social sciences, with a particular emphasis on critically evaluating the relationship between the visionary experience and its expression. (Same as HWC 464.) LEC

REL 468 Illness in Art and Literature (3). H An examination of how illness and health have been conceptualized, expressed, and explored in Western literature and art, as well as a consideration of issues of illness and health from the perspectives of philosophy and religious studies. (Same as HWC 468.) LEC

REL 475 Loving Relationships (3). H Theories and elements of love in a variety of types of relationships, with attention to religious ethical traditions and social and behavioral sciences. Includes small group discussions and application to personal experience. (Same as COMS 455.) Prerequisite: Junior standing or above. LEC

REL 477 Women and Religion (3). H Examination of symbols, images, scriptures, rites, and teachings defining women's roles in various religious traditions. LEC

REL 478 Women and Religion, Honors (3). Examination of symbols, images, scriptures, rites, and teachings defining women's roles in various religious traditions. Prerequisite: Open only to students in the University Honors Program, or by permission of instructor. LEC

REL 499 Undergraduate Honors Research (1-3). H Required for Departmental Honors. May be taken more than once; total credit not to exceed 6 hours. Prerequisite: Open only to candidates for degree with departmental honors and with consent of the student's research supervisor. IND

REL 500 Readings in Non-English Religious Texts (1-4). This course provides directed readings for students in either primary or secondary texts related to religious studies utilizing material in languages other than English. IND

REL 504 Millenarian Movements (3). SA A historical survey of millenarian movements (the belief in imminent, total, ultimate, this-worldly, collective salvation), with particular attention to their psychological, socio-

logical, and political dimensions. (Same as POLS 504.) Prerequisite: POLS 301 or honors equivalent or for non-majors completion of Western Civilization requirement, or consent of instructor. LEC

REL 507 Religion in India (3). NW H/W Survey of religious thought and practice in India from the Vedic period to the present. LEC

REL 508 Religion in China (3). NW H/W Survey of religious thought and practice in China from the Shang to the People's Republic. (Same as EALC 508.) LEC

REL 509 Religion in Japan (3). NW H/W Survey of religious thought and practice in Japan from the Jomon period to the present. (Same as EALC 509.) LEC

REL 512 Prophecy, Poetry, and Story in the Hebrew Bible (Old Testament) (3). H/W Examination of major styles of writing in the Hebrew Bible, their content, historical context, and major theories current in the academic study of the Bible. Prerequisite: REL 124, or REL 311 or REL 315, or permission of instructor. LEC

REL 515 Studies in Early Christian Literature and History (3). H Contemporary research in the history and literature of earliest Christianity including most of the following: (1) the use of critical method, (2) philosophical and theological contexts, (3) sociological analyses, (4) interpretation of archaeological data (5) Papyrology and the medieval manuscript tradition, (6) relations between Christians and the Roman governments, (7) relations between Christians and Jews, (8) development of diverse literary genres, and (9) the origins gnosis and Christian gnosticism. Prerequisite: REL 124 or permission of instructor. LEC

REL 523 The Dead Sea Scrolls (3). H A study of the archeological evidence and texts from the Dead Sea area that provide primary evidence for Jewish religious belief and practice in the Greek and Roman periods (ca. 250 B.C.E. - 135 C.E.). Prerequisite: REL 124 or consent of instructor LEC

REL 524 Studies in Ancient Egyptian Culture and Religion (3). H A study of the basic features of Egyptian history, culture, and religion from the beginning of the Pharaonic period (ca. 3500 B.C.E.) to the rise of Greek rule in Egypt (ca. 350 B.C.E.). Prerequisite: A principal course in Religious Studies or consent of instructor. LEC

REL 525 Jews and Christians in Greco-Roman Antiquity (3). H/W This course will commence with a description of the religious and philosophical developments of the Hellenistic world and then describe the history of the Jews and religious developments within Judaism down to the fall of Jerusalem in 70 C.E. Next there will be a description of the origin of Christianity and its development to the end of the first century and also the development of Judaism to the completion of the Mishnah. Subsequently there will be consideration of the interplay between Judaism, Gnosticism, and Christianity down to 400 C.E. The course will be concluded with discussions of such topics as Jewish and Christian ideas of redemption, messianism and eschatology. LEC

REL 526 Jewish History and Literature in the Greek and Roman Periods (3). H/W The history and literature of the Jewish people from the hellenistic period (late fourth century B.C.E. to the codification of the Mishnah 210 C.E.). Select texts from the Hebrew Bible, the so-called apocrypha and pseudepigrapha, the Qumran scrolls, Philo, Josephus, related early Christian texts, and Rabbinic texts will be studied. Prerequisite: REL 124 or permission of instructor. LEC

REL 530 Christian Origins: From the Beginnings to Augustine (3). H/W This course covers the major political, literary, and theological developments in Christianity from the first century through Augustine in the early fifth century, including: (1) the development and significance of the New Testament canon, (2) relations between Christians, Jews, and the Roman government, (3) the nature of orthodoxy and heresy, and the rise of the major gnostic systems, (4) the growth of the orthodox network, (5) theological debates and councils, and (6) the biography and theology of Augustine and his influence on the medieval church. Prerequisite: Junior standing or above. LEC

REL 531 Studies in Christianity (3). H Study of religious thought, practice, and institutions of Christianity with an emphasis on the examination of primary documents. LEC

REL 532 Studies in Islam (3). H Study of religious thought, practice, and institutions of Islam with an emphasis on the examination of primary documents. (Same as AAAS 532.) LEC

REL 534 Studies in Ritual: _____ (3). H A study of ritual theory and a comparative study of ritual activity among selected religious traditions. May be taken more than once if content differs sufficiently. LEC

REL 535 The History of Islam in Africa (3). H/W A study of the history and institutions of Islam in Africa. Emphasis will be placed on the impact of Islam on African traditional religions and African civilization in general; the historiographical traditions of Islam in Africa. (Same as AAAS 542.) LEC

REL 539 Greek and Roman Religion (3). H/W A study of the evidence for religious cults and thought in the Greco-Roman world from the Homeric age to the end of ancient paganism. No knowledge of Greek or Latin required. Prerequisite: CLSX 148. LEC

REL 552 Classical Islamic Literature (3). NW H An examination of major developments in classical Islamic literature in the Middle East

The Freshman-Sophomore Advising Center offers advising services in Strong Hall, 1450 Jayhawk Blvd., Room 126, Lawrence, KS 66045-7535, (785) 864-2834, advising@ku.edu, www.advising.ku.edu.

The College of Liberal Arts and Sciences offers undergraduate advising for degree completion programs on the KU Edwards Campus, (913) 897-8400, <http://edwardscampus.ku.edu>.

and beyond, with attention to the poetic and prose works (in translation) that emerged from them. (Same as AAAS 552.) LEC

REL 558 Religion in Britain Since the Reformation: A Survey (3). H This course deals analytically and synoptically with religion in Britain from the Reformation to the present with special reference to the Church of England, and focuses on the themes of ecclesiology, ecclesiastical polity, and political theology. It is essentially an examination of religious history from a perspective of history of ideas. (Same as HIST 558.) LEC

REL 559 Religion in Britain Since the Reformation: A Survey, Honors (3). H This course deals analytically and synoptically with religion in Britain from the Reformation to the present with special reference to the Church of England, and focuses on the themes of ecclesiology, ecclesiastical polity, and political theology. It is essentially an examination of religious history from a perspective of the history of ideas. Open only to students in the University Honors Program or by permission of instructor. (Same as HIST 559.) LEC

REL 570 Studies in Judaism (3). H A study of the major intellectual sources of the Jewish tradition from the Mishna, Talmud, Midrash, prayerbook, philosophers, the Zohar, and the Shulchan Aruch. Prerequisite: A course in Religious Studies numbered 300 or above. LEC

REL 580 Religious Perspectives on Illness, Health, and Healing (3). H An examination of the perspectives of selected religious traditions on the meaning of illness and health, methods of diagnosis and treatment, and the place of these themes and experiences within each tradition. LEC

REL 581 Psychology of Religion (3). S Consideration of the psychological antecedents of religious experience, the nature of religious experience, and the behavioral consequences of religion. Focus will be on psychological theory and research relevant to religious thought, feeling, belief, and behavior. (Same as PSYC 581.) Prerequisite: PSYC 104. LEC

REL 585 New Religious Movements (Western) (3). H A survey of the beliefs, practices, and social impact of religious minorities in the United States, both contemporary and historical, rooted primarily in Christianity and Judaism. LEC

REL 586 New Religious Movements (Nonwestern) (3). H/W A survey of the beliefs, practices, and social impact of religious minorities in the United States, both contemporary and historical, which have developed primarily from sources other than Christianity and Judaism. LEC

REL 601 Approaches to the Study of Religion (3). H An introduction to the various methods by which social scientists, historians, philosophers, and theologians study the meaning, influence, and significance of religion as an integral part of society and its cultural heritage. Prerequisite: REL 104 required for undergraduate students. No prerequisite for graduate students. LEC

REL 602 Special Topics in Religion: _____ (1-4). H Topic and instructor to be announced in Timetable. Enables qualified students to participate in current research interests of faculty and/or pursue specific current topics. May be offered by different instructors under different subtitles, and may be taken more than once if subject matter varies sufficiently. Prerequisite: Consent of instructor. LEC

REL 604 Religion and Political Theory (3). S An examination of the relationship between religious faith and politics in Western political thought and theory. The approach will be both historical and philosophical, beginning with Moses on the one hand, and the Greeks on the other. Texts will include biblical, Greek philosophical, Jewish and Christian philosophical and theological writings. (Same as POLS 604.) Prerequisite: POLS 201, or for non-POLS majors completion of Western Civilization requirements, or consent of instructor. LEC

REL 650 Sufism (3). NW H A survey of developments in Sufi (Islamic Mystical) thought, poetry, and ritual throughout Muslim history and across the Muslim world. (Same as AAAS 650.) Prerequisite: AAAS 349/REL 350 or permission of instructor. LEC

REL 657 Gender in Islam and Society (3). NW H An investigation of the relationship between Islam, and gender roles and status in religious texts (Quran and Hadith) and in societies across the Muslim world, past and present. (Same as AAAS 657.) Prerequisite: AAAS349/REL 350 or permission of instructor. LEC

REL 665 Religious Ethics (3). H Main themes and traditions in ethical thought. Religious thought as basis of systems of ethics. Contemporary approaches to methods of value organization and moral choices. Prerequisite: A basic course in religious studies. LEC

REL 667 Religious Perspectives on War and Peace (3). H Views of war and peace in various faith traditions throughout the world. Examination of teachings and action of religious groups and selected individuals, including use of war rhetoric and differing theological and social understandings of peace. Lecture, seminar discussion, and research assignment require preparation and participation by students. Prerequisite: Junior standing or above. LEC

REL 669 Human Conflict and Peace (3). H Study of religious, cultural, and social traditions toward understanding the nature and purposes of human conflict. Analysis of various meanings of peace, with emphasis on study of nonviolent approaches to management of conflict. Class discussion, readings, and individual research projects. (Same as COMS 669.) Prerequisite: Junior standing or above. LEC

REL 671 American Communes (3). H An examination of utopian communities in North America from the seventeenth century to the present. The course will survey the history, literature, and social dynamics of representative communal societies and movements including the Shakers, the Hutterites, the Oneida Community, Catholic religious communities, egalitarian communities, and other religious and secular communities. LEC

REL 672 Mother as Religious Metaphor (3). H A study of the symbols, myths, and rituals of selected religious traditions using gender and color as primary categories of analysis. Readings include both religious texts and classic theories of symbolism. LEC

REL 677 Women in Christianity (3). H An examination of the roles, images, and status of women in Christianity from its origin to the contemporary period and in its missionary expansion from the ancient Near East through Europe, North and South America, Africa, and Asia. LEC

REL 732 Seminar in Western Religious Texts: _____ (3).

REL 733 Seminar in Eastern Religious Texts: _____ (3).

REL 761 Seminar in Western Religious Thought: _____ (3).

REL 762 Seminar in Eastern Religious Thought: _____ (3).

REL 771 Seminar in Religious Movements and Social Change: _____ (3).

REL 772 Seminar in Religion and Modern Social Criticism: _____ (3).

REL 775 Seminar in Religion and Society in the West: _____ (3).

REL 776 Seminar in Religion and Society in Asia: _____ (3).

REL 777 Seminar in Religion and Gender (3).

REL 780 Seminar in Theories of Religious Experience (3).

REL 781 Seminar in Theories of Religion (3).

REL 787 Seminar in Ethical Issues in Health Care (3).

Russian

See Slavic Languages and Literatures.

Russian, East European, and Eurasian Studies

Director: Erik Herron, crees@ku.edu

Undergraduate Adviser: Ray Finch

Bailey Hall, 1440 Jayhawk Blvd., Room 320

Lawrence, KS 66045-7574

(785) 864-4236, www.crees.ku.edu

Degrees offered: Bachelor's (co-major only), M.A.

The interdisciplinary bachelor's degree is available only as a co-major in conjunction with a major in one of the traditional academic disciplines. The co-major also can be combined with a bachelor's degree in a professional school such as business or journalism.

Co-major

First- and Second-year Preparation. Students should fulfill the language requirement (16 hours or equivalent) in a Slavic or Eastern European language before the beginning of the junior year. Students may benefit from spending a summer in intensive language training. Confer early with a Russian, East European, and Eurasian studies adviser as well as with a major adviser.

Requirements for the Co-major. Thirty hours are required, as follows:

3 hours of advanced language

3 hours in the Department of Slavic Languages and Literatures numbered 500 or above that involve the use of a Slavic language

REES 110/REES 111 Understanding Russia and Eastern Europe

REES 492 Seminar in Russian and East European Studies: _____

REES 496 Seminar in Russian and East European Studies: _____

15 hours in courses listed in groups A to E, with at least 3 hours in

each of the following five groups:

A. Literature and the Arts. SLAV 140, SLAV 144, SLAV 148, SLAV 240, SLAV 390, SLAV 500, SLAV 502, SLAV 504, SLAV 506, SLAV 508, SLAV 510, SLAV 512, SLAV 528, SLAV 530, SLAV 532, SLAV 534, SLAV 536, SLAV 538, SLAV 562, SLAV 600, SLAV 612, SLAV 614, SLAV 616, SLAV 630, SLAV 642, SLAV 650, SLAV 656, SLAV 660,

SLAV 662, SLAV 664, SLAV 668, SLAV 679, SLAV 711, SLAV 712, SLAV 714, SLAV 715, SLAV 716, SLAV 721, SLAV 726, TH&F 725

B. History. HIST 101, HIST 117, HIST 334, HIST 340, HIST 342, HIST 343, HIST 510, HIST 527, HIST 554, HIST 557, HIST 565, HIST 566, HIST 568, HIST 569, HIST 570, HIST 592, HIST 696

C. Political Science. POLS 150, POLS 170, POLS 370, POLS 601, POLS 652, POLS 654, POLS 655, POLS 669, POLS 671, POLS 672, POLS 673, POLS 675, POLS 679, POLS 689, SOC 780

D. Philosophy and Religion. PHIL 560, PHIL 580, PHIL 684, PHIL 686, REES 704, REES 709, REES 714, SLAV 684, SLAV 686, SLAV 719

E. Economics and Geography. BUS 400, ECON 560, ECON 562, ECON 563, GEOG 594, GEOG 595, GEOG 794, GEOG 795

There is no limit on the number of courses that can count for both KU general education requirements and the co-major. No more than 12 junior/senior hours (300 level or above) from a student's primary major may count toward the co-major. Students taking the co-major as a third major may double-count one additional course.

No courses may be double-counted within the co-major. Courses taken abroad may be used to fulfill any of the five categories listed above, provided the student receives prior approval from the undergraduate adviser.

● Russian, East European, and Eurasian Studies Courses

REES 110 Understanding Russia and Eastern Europe (3). SC S A multidisciplinary introduction to the former communist states of Russia, the western Newly Independent States, Central Europe, and the Balkans. The course addresses the geography and history of the region, as well as the cultures of its peoples, as presented in literature, film, and music. Special attention is devoted to the current political, economic, and social situations, as they are reflected by the transition from communism and the rise of nationalism. LEC

REES 111 Understanding Russia and Eastern Europe, Honors (3). SC S A multidisciplinary introduction to the former communist states of Russia, the western Newly Independent States, Central Europe, and the Balkans. The course addresses the geography and history of the region, as well as the cultures of its peoples, as presented in literature, film, and music. Special attention is devoted to the current political, economic, and social situations, as they are affected by the transition from communism and the rise of nationalism. Prerequisite: Open only to students in the University Honors Program, or by permission of instructor. LEC

REES 480 Special Problems in Area Studies (3). H Interdisciplinary examination of topics involving two or more of the cooperating disciplines in Russian and East European studies. LEC

REES 492 Seminar in Russian and East European Studies: _____ (3). H An interdisciplinary seminar. Each student will be expected to write an interdisciplinary seminar paper, involving the use of materials in an East European language and concentrated in the discipline of the student's special interest. A grade will be assigned only on satisfactory completion of REES 496. LEC

REES 496 Seminar in Russian and East European Studies: _____ (3). H Continuation of REES 492. LEC

REES 510 Understanding Central Asia (3). NW S/W An intensive, multidisciplinary survey of Central Asia, focusing on the former Soviet republics-Kazakhstan, Krygyzstan, Tajikistan, Turkmenistan, Uzbekistan-with additional coverage of neighboring regions (the Caucasus and the Caspian basin, Afghanistan, and western China). The course addresses the history of the region (from the Silk Road to Soviet rule), geography, religion, and the building of post-Soviet states and societies. LEC

REES 704 Church History of Russia I (3).

REES 709 Church History of Russia II (3).

REES 714 Church-state Relations in the U.S.S.R. (3).

REES 715 Seminar in the History of Russian Thought (3).

REES 799 Directed Readings in Russian and East European Studies (1-5).

Scandinavian

See Germanic Languages and Literatures.

Slavic Languages and Literatures

Chair: Marc L. Greenberg

Wescow Hall, 1445 Jayhawk Blvd., Room 2134

Lawrence, KS 66045-7590

(785) 864-3313, www.ku.edu/~slavic

Degrees offered: B.A., M.A., Ph.D.

The undergraduate major in Slavic languages and literatures prepares students to pursue a range of careers connected with Russia and Central Europe, including those related to international work in business, government, nonprofit organizations, etc. The undergraduate major serves equally as solid preparation for graduate study in Slavic languages and literatures and related fields and for entrance to professional schools such as law or journalism. Students learn these languages to pursue careers with international dimensions; enhance job opportunities; connect with heritage, family, and communities; explore other literatures and cultures; and to pursue personal interests.

The undergraduate program gives students solid functional language skills in speaking, reading, listening, and writing. Students develop the strategies and linguistic awareness to continue language study throughout their lives. The program acquaints undergraduates with the most significant works of the literature and culture of the Slavic region and gives them the tools and frameworks necessary to understand, analyze, and critique those works and place them in their cultural context. Students work with sources in English and in the original languages.

The department strongly encourages students to plan a substantial study abroad experience (at least a summer but preferably a semester or an academic year) as part of the major. Study abroad experience contributes to mastery of the language and facilitates students' encounters with the people, practices, and attitudes of the culture in ways that can never be replicated on an American university campus.

Courses for Nonmajors

Some courses in Slavic literatures and cultures are taught in English and fulfill general B.A. requirements in the humanities and non-Western culture.

Students may fulfill the College language requirement for the B.A. degree by taking two years in one of the following Slavic languages: Russian, Polish, or Croatian and Serbian (the related languages of the peoples of Croatia, Serbia, and Bosnia). For example, in Russian, the required sequence is RUSS 104, RUSS 108, RUSS 212, and RUSS 216 (or RUSS 204 and RUSS 208).

Courses are available in Russian for special purposes (Russian for Reading, Russian for the Professions). RUSS 110 Intensive Elementary Russian (10 credit hours) frequently is offered in the summer.

Placement

Students may establish eligibility for enrollment in the second course in Polish, Russian, or Croatian and Serbian by having earned college credit in the first course in that language or by having studied the language in high school. Students with previous study should contact the department to arrange a consultation about enrollment at the appropriate level.

KU enrolls students from every state in the nation and from more than 100 foreign countries.

Admission guidelines are subject to change. Direct questions to the University of Kansas Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045-7576, (785) 864-3911, fax: (785) 864-5017, adm@ku.edu, www.admissions.ku.edu.

Retroactive Credit. Students with no prior college or university Russian course credit are eligible for retroactive credit according to this formula:

Three hours of retroactive credit are awarded to a student with two or three years of high school Russian who enrolls initially at KU in a third-level Russian course (RUSS 204 or RUSS 212) and receives a grade of C or higher.

Six hours of retroactive credit are awarded to a student with three or four years of high school Russian who enrolls initially at KU in a fourth-level Russian course (RUSS 208 or RUSS 216) and receives a grade of C or higher.

Nine hours of retroactive credit are awarded to a student with four years of high school Russian who enrolls initially at KU in a Russian course with a fourth-level course as a prerequisite and receives a grade of C or higher.

Majors

The student completes a minimum of 27 hours of study in one of three concentrations: Polish, Russian, or South Slavic (Bosnian, Croatian, and Serbian). Beyond this minimum, students are strongly encouraged to take additional courses in the Slavic department and appropriate background courses in the history, philosophy, and political science of the Slavic regions.

Russian Concentration: First- and Second-year Preparation. Students who have not had at least two years of high school Russian should enroll in RUSS 104 and RUSS 108 (offered in the fall and spring respectively) during the first or second year. An alternative is RUSS 110, an intensive basic Russian course for 10 hours offered in the summer. RUSS 204 Intermediate Russian I and SLAV 140/SLAV 141 Introduction to Russian Culture (HT principal course) are also premajor courses. Prospective majors should consult a departmental adviser during the first or second year.

Prospective Russian majors should take RUSS 204 and RUSS 208. RUSS 212 and RUSS 216 are courses intended for nonspecialists and for students fulfilling the College foreign language requirement.

Russian Concentration: Requirements for the B.A. Major. The following courses are required (27 hours):

RUSS 208 Intermediate Russian II	6
RUSS 504 Advanced Russian I (3) or	
RUSS 512 Russian for the Professions I (3)	3
RUSS 508 Advanced Russian II (3) or	
RUSS 516 Russian for the Professions II (3)	3
One 3-credit-hour course in Russian linguistics at the 200 level or higher	3
One 3-credit-hour course in Russian literature above the 400 level ..	3
Plus 9 credit hours of courses in Russian literature, culture, linguistics, or stylistics chosen in consultation with the major adviser	9

Polish Studies Concentration: First- and Second-year Preparation. Students with no previous knowledge of Polish should enroll in the first or second year in PLSH 104 Elementary Polish I and PLSH 108 Elementary Polish II, taught in the fall and spring respectively. PLSH 204 Intermediate Polish I is also a premajor course.

Polish Studies Concentration: Requirements for the B.A. Major. The following courses are required (27 hours):

PLSH 208 Intermediate Polish II	3
PLSH 504 Advanced Polish I	3
PLSH 508 Advanced Polish II	3
HIST 554 Poland from Kings to Communists to Solidarity and After ...	3
PLSH 675 Readings in Polish Language and Literature	3
Plus any four electives from the list below:	12
Maximum of two Polish history courses including HIST 554	
SLAV 240 Introduction to the Languages and Peoples of Russia and East-Central Europe (3)	
SLAV 504 Introduction to East-Central European Culture and Society: _____ (3)	
GEOG 595 Geography of Eastern Europe (3)	
POLS 655 Politics of East-Central Europe (3)	

POLS 753 Politics of Ideocracy (3)	
ECON 560 Economic Systems (3)	
PHIL 580 Marxism (3) (or other relevant course in philosophy)	

South Slavic Studies Concentration: First- and Second-year Preparation. Students with no previous knowledge of Croatian and Serbian should enroll in the first or second year in CRSB 104 Elementary Croatian and Serbian I and CRSB 108 Elementary Croatian and Serbian II, taught in the fall and spring respectively. CRSB 204 Intermediate Croatian and Serbian I is also a premajor course.

South Slavic Studies Concentration: Requirements for the B.A. Major. These courses are required (27 hours):

CRSB 208 Intermediate Croatian and Serbian II	3
SLAV 508 South Slavic Literature and Civilization	3
Plus 9 hours from the following courses:	9
CRSB 504 Advanced Croatian and Serbian I (3)	
CRSB 508 Advanced Croatian and Serbian II (3)	
CRSB 675 Readings in Croatian and Serbian (3)	
CRSB 380 Intensive Croatian (summer in Croatia) (6)	
Plus any four electives from the following list:	12
GEOG 595 Geography of Eastern Europe (3)	
POLS 655 Politics of East-Central Europe (3)	
POLS 753 Politics of Ideocracy (3)	
ECON 560 Economic Systems (3)	
PHIL 580 Marxism (or other relevant course in philosophy) (3)	
SLAV 240 Introduction to the Languages and Peoples of Russia and East-Central Europe (3)	
SLAV 504 Introduction to East-Central European Culture and Society: _____ (3)	
SLAV 560 Introduction to Slavic Language: Macedonian, Bulgarian, or Slovenian (3)	
SLAV 630 Slavic Folklore (3)	

Requirements for the Minors. Four minor tracks are offered.

Polish Studies Minor. The minor requires 18 hours, as follows:

PLSH 204 Intermediate Polish I	3
PLSH 208 Intermediate Polish II	3
3 hours in Polish culture at the 300 level or above	3
9 hours in language, history, culture, or literature at the 300 level or above, chosen from courses in the Polish studies concentration	9

Russian Minor. The minor requires 18 hours, as follows:

RUSS 208 Intermediate Russian II	6
3 hours in Russian linguistics at the 300 level or above	3
3 hours in Russian literature at the 300 level or above	3
6 hours in language, linguistics, or literature at the 300 level or above.	6

Slavic Cultures in Translation Minor. The minor requires 18 hours, as follows: Two courses chosen from the following:

SLAV 140/SLAV 141 Introduction to Russian Culture	
SLAV 144/SLAV 145 Survey of Russian Literature in Translation	
SLAV 148/SLAV 149 Introduction to Slavic Folklore	
SLAV 240/SLAV 241 Introduction to the Languages and Peoples of Russia and East-Central Europe	
12 hours of Slavic literature and culture courses at the 300 level or above	12
Students should consult an undergraduate adviser to make sure that their selection of junior/senior hours assures broad enough representation of Slavic literatures and cultures.	

South Slavic Studies Minor. The minor requires 18 hours, as follows:

CRSB 204 Intermediate Croatian and Serbian I	3
CRSB 208 Intermediate Croatian and Serbian II	3
3 hours in South Slavic cultures at the 300 level or above	3
9 hours in South Slavic languages, history, cultures, or literatures at the 300 level or above, chosen from courses in the South Slavic studies concentration	9

Honors. Students with overall grade-point averages of 3.25 and of 3.5 in Slavic courses are eligible for the honors program. Before enrolling, students must consult an undergraduate adviser to formulate an appropriate topic. Students complete SLAV 499 Honors Thesis (3 hours above the major requirements) during one semester of the senior year. The honors thesis is evaluated by a committee of three faculty members. The candidate makes an oral defense before this committee.

Study Abroad

The department, in conjunction with the Center for Russian, East European, and Eurasian Studies, conducts summer institutes at universities in

St. Petersburg, Russia;
Krakow, Poland;
Lviv, Ukraine; and
Zagreb and Dubrovnik, Croatia.

Together with the Department of Theatre and Film it offers a winter institute in theatre and the arts in Prague, Czech Republic.

Arrangements can be made for students to study for one semester or a full academic year at these or other universities. Some scholarship support is available. Consult the Slavic department office or the Office of Study Abroad. Credit for non-KU programs is not automatic and is evaluated in consultation with the Slavic department undergraduate director.

● Croatian and Serbian Courses

CRSB 104 Elementary Croatian and Serbian I (5). U First semester. Five hours of recitation and drill in the spoken language per week. Essentials of grammar, practice in reading, writing, and speaking Croatian and Serbian. LEC

CRSB 105 Elementary Croatian and Serbian I, Honors (5). U Similar to CRSB 104 but with additional work aimed at accelerating the student's progress to proficiency and widening understanding of the cultural context. Prerequisite: Open only to students admitted to the University Honors Program, or by permission of instructor. LEC

CRSB 108 Elementary Croatian and Serbian II (5). U Second semester. A continuation of CRSB 104. Prerequisite: CRSB 104. LEC

CRSB 109 Elementary Croatian and Serbian II, Honors (5). U Continues CRSB 105. Similar to CRSB 108 but with additional work aimed at accelerating the student's progress to proficiency and widening understanding of the cultural context. Prerequisite: CRSB 104 or 105. Open only to students admitted to the University Honors Program, or by permission of instructor. LEC

CRSB 204 Intermediate Croatian and Serbian I (3). U Second-year course in the language with emphasis on reading, composition, and conversation. Prerequisite: CRSB 108. LEC

CRSB 205 Intermediate Croatian and Serbian I, Honors (3). U Similar to CRSB 204 but with additional work aimed at accelerating the student's progress to proficiency and widening understanding of the cultural context. Prerequisite: Open only to students who have received an A in CRSB 108 or an A or B in CRSB 109, and who are admitted to the University Honors Program, or by permission of instructor. LEC

CRSB 208 Intermediate Croatian and Serbian II (3). U A continuation of CRSB 204. Prerequisite: CRSB 204. LEC

CRSB 209 Intermediate Croatian and Serbian II, Honors (3). U Similar to CRSB 208 but with additional work aimed at accelerating the student's progress to proficiency and widening understanding of the cultural context. Prerequisite: CRSB 204 or 205. Open only to students admitted to the University Honors Program, or by permission of instructor. LEC

CRSB 380 Intensive Croatian (6). U This program consists of a six-week intensive language course in beginning, intermediate, and advanced Croatian phonetics, conversation, and grammar, and is offered each summer in Croatia. In addition to the practical language work, there is a program of lectures on modern Croatian history, literature, and other cultural topics. Weekend tours bring the students into first-hand contact with a wide variety of peoples and cultures in Croatia. This program is a cooperative effort sponsored by the University of Kansas and the Center for Foreign Languages of Zagreb, and the University of Zagreb, Croatia. LEC

CRSB 504 Advanced Croatian and Serbian I (3). H/W A practical Croatian-Serbian language course involving advanced study of the grammar, reading of texts on a variety of subjects, conversation, and composition. Taught in Croatian-Serbian. Designed for students who have had two or more years of Croatian-Serbian language. Prerequisite: CRSB 208 or equivalent. LEC

CRSB 508 Advanced Croatian and Serbian II (3). H/W A practical Croatian-Serbian language course involving advanced study of the grammar, reading of texts on a variety of subjects, conversation, and composition. Taught in Croatian-Serbian. Designed for students who have had two and one-half or more years of Croatian-Serbian language. Prerequisite: CRSB 504 or equivalent. LEC

CRSB 675 Readings in Croatian and Serbian (1-6). H/W Prerequisite: Two years of Croatian-Serbian, and consent of instructor. IND

● Czech Courses

CZCH 104 Elementary Czech I (5). U First semester. Essentials of grammar, practice in speaking and writing Czech. Simple readings from selected texts. LEC

CZCH 108 Elementary Czech II (5). U Second semester. A continuation of CZCH 104. Prerequisite: CZCH 104. LEC

CZCH 204 Intermediate Czech I (3). U Second-year course in the language with emphasis on reading, composition, and conversation. Prerequisite: CZCH 108. LEC

CZCH 208 Intermediate Czech II (3). U A continuation of CZCH 204. Prerequisite: CZCH 204. LEC

CZCH 675 Readings in Czech (1-6). H/W Prerequisite: Reading knowledge of Czech language, and consent of instructor. IND

● Polish Courses

PLSH 104 Elementary Polish I (5). U First Semester. Five hours of recitation and drill in the spoken language per week. Essentials of grammar, practice in reading, writing, and speaking Polish. LEC

PLSH 108 Elementary Polish II (5). U Second semester. A continuation of PLSH 104. Prerequisite: PLSH 104. LEC

PLSH 204 Intermediate Polish I (3). U Second-year course in the language with emphasis on reading, composition, and conversation. Prerequisite: PLSH 108. LEC

PLSH 208 Intermediate Polish II (3). U A continuation of PLSH 204. Prerequisite: PLSH 204. LEC

PLSH 312 Polish Language and Civilization in Poland: Summer Program (3-9). H/W Polish grammar, conversation, and composition, with selected aspects of Polish Civilization. Available only to participants in the Summer Language Institute in Krakow, Poland. LEC

PLSH 504 Advanced Polish I (3). H/W A practical Polish language course involving advanced study of the grammar, reading of texts on a variety of subjects, conversation, and composition. Taught in Polish. Designed for students who have had two or more years of Polish language. Prerequisite: PLSH 208 or equivalent. LEC

PLSH 508 Advanced Polish II (3). H/W A practical Polish language course involving advanced study of the grammar, reading of texts on a variety of subjects, conversation, and composition. Taught in Polish. Designed for students who have had two and one-half or more years of Polish. Prerequisite: PLSH 504 or equivalent. LEC

PLSH 675 Readings in Polish Language and Literature (1-6). H/W Directed individual readings on various topics concerning Polish literature and/or language. Prerequisite: Two years or four semesters of Polish, and consent of instructor. IND

● Russian Courses

RUSS 100 Russian Reading Course I (3). U A special reading course for candidates for advanced degrees, faculty members, and graduate or undergraduate students from other schools or departments, designed to aid them in obtaining a reading knowledge for purposes of research. An intensive study of the fundamentals of grammar proceeding to the reading of material of medium difficulty. The course does not satisfy any part of the undergraduate language requirement. Presupposes no previous study of Russian. LEC

RUSS 101 Russian Reading Course II (3). U A continuation of RUSS 100. Completion and review of the fundamentals of grammar, with emphasis on reading and translation of learned, scientific, or technical writing and other material of an advanced nature. Each student will also have special assignments in his or her particular field. This course does not satisfy any part of the undergraduate language requirement. Prerequisite: RUSS 100. LEC

RUSS 104 Elementary Russian I (5). U First semester. Five hours of basic language acquisition and two hours of oral practice per week. Essentials of grammar, practice in comprehending, speaking, reading, and writing Russian. LEC

RUSS 108 Elementary Russian II (5). U Second semester. Five hours of basic language acquisition and two hours of oral practice per week. A continuation of RUSS 104. Prerequisite: RUSS 104. LEC

RUSS 110 Intensive Elementary Russian (10). U Intensive course in elementary Russian providing the student with a complete survey of Russian grammar, and proficiency in understanding, reading, and speaking of basic Russian. Twenty contact hours per week. Same content as RUSS 104 and RUSS 108 combined. LEC

RUSS 150 Beginning Russian I (3). U Fundamentals of Russian grammar, reading, speaking, and writing. Course designed to accommodate the needs of students regardless of age, educational background, or occupation. No previous knowledge of Russian or other foreign languages required. LEC

RUSS 152 Beginning Russian II (3). U Continuation of RUSS 150. Does not fulfill BA foreign language requirement. Prerequisite: RUSS 150 or equivalent. LEC

Language instruction is offered regularly in Russian, Polish, and Croatian and Serbian.

Occasionally, courses in Ukrainian, Czech, Slovene, Macedonian, Bulgarian, and other Slavic languages are offered.

RUSS 204 Intermediate Russian I (6). U This course is designed to develop speaking, reading, and listening proficiency within the context of detailed grammatical review. The course meets five hours a week for six hours credit. It is especially recommended for potential majors in Russian, for area-studies students, and for students intending to apply for study abroad in Russia. Prerequisite: RUSS 108, RUSS 110, or equivalent. LEC

RUSS 208 Intermediate Russian II (6). U Continuation of RUSS 204. Completes the undergraduate foreign language requirement. The course is designed to develop speaking, reading, and listening proficiency within the context of detailed grammatical review. It is especially recommended for potential majors in Russian, for area-studies students, and for students intending to apply for study abroad in Russia. Students who have completed only RUSS 212 may enroll with the permission of the instructor. Prerequisite: RUSS 204 or equivalent. LEC

RUSS 212 Second-year Russian I (3). U A review of Russian and further development of all four language skills. This course is intended for non-specialists and for students fulfilling the language requirement. Prerequisite: RUSS 108 or RUSS 110. LEC

RUSS 216 Second-year Russian II (3). U Continuation of RUSS 212. More focused development of students' oral skills and reading abilities. This course fulfills the college foreign language requirement. Prerequisite: RUSS 204 or RUSS 212. LEC

RUSS 250 Continuing Russian I (3). U Fundamentals of Russian grammar, reading, speaking, and writing. Course designed to accommodate the needs of students regardless of age, educational background, or occupation. Does not count towards the fulfillment of undergraduate language requirement. Does not count towards the undergraduate major in Slavic. Prerequisite: RUSS 152 or equivalent. LEC

RUSS 252 Continuing Russian II (3). U A continuation of RUSS 250. Does not count towards the fulfillment of undergraduate language requirement. Does not count towards the undergraduate major in Slavic. Prerequisite: RUSS 250 or equivalent. LEC

RUSS 504 Advanced Russian I (3). H/W A practical Russian language course involving advanced study of the grammar, reading of texts on a variety of subjects, conversation, and composition. Taught in Russian. Designed for students who have had four semesters of Russian. Prerequisite: RUSS 208 or RUSS 216. LEC

RUSS 508 Advanced Russian II (3). H/W A practical Russian language course involving advanced study of the grammar, reading of texts on a variety of subjects, conversation, and composition. Taught in Russian. Designed for students who have had two and one-half or more years of Russian language. Prerequisite: RUSS 504. LEC

RUSS 512 Russian for the Professions I (3). U This course focuses on the active mastery of language structures and vocabulary needed for people using Russian in professional capacities, particularly such as business and journalism. Materials will be drawn from the current Russian press and electronic media. Designed for students who have had basic language training and want to develop specialized language skills. Prerequisite: RUSS 208 or RUSS 216. LEC

RUSS 516 Russian for the Professions II (3). U A continuation of RUSS 512. Prerequisite: RUSS 504, RUSS 512, or RUSS 522. LEC

RUSS 522 Problems in Translating Russian into English I (3). H/W Preparation of hitherto untranslated works, possibly with the intention of submitting for publication. Training and practice in the skills of oral interpretation. Prerequisite: Two years minimum of Russian language courses. LEC

RUSS 526 Problems in Translating Russian into English II (3). H/W A continuation of RUSS 522. LEC

RUSS 550 Advanced Conversation, Composition, and Grammar in Russia: Summer Program (6). H/W Held in Russia. Twenty-four hours of class work weekly, plus lectures and excursions, for six weeks at St. Petersburg University. Prerequisite: RUSS 208 or the equivalent of twenty-two hours of Russian language courses. LEC

RUSS 552 Advanced Russian Language at Saint Petersburg University: Semester Program (14). H/W Sixteen weeks of intensive Russian language and literature classes held at Saint Petersburg University, Russia. Classes in advanced phonetics, conversation, and grammar as well as lectures on literary and other cultural topics. Prerequisite: Minimum of five semesters of Russian language study at the college level or its equivalent. LEC

RUSS 604 Contemporary Russian Culture (3). H/W This advanced Russian language class explores issues in contemporary Russian culture (literature and the arts, societal trends and issues, politics, and national life) based on Russian film, television, and print materials. It is designed to develop reading, writing, and speaking skills of advanced language students who wish to develop high levels of fluency, accuracy, and idiomatic expressiveness. Includes the preparation of both written and oral reports. Discussion format; conducted entirely in Russian. Prerequisite: RUSS 508 or equivalent. LEC

RUSS 608 Russian Phonetics and Grammar (3). H/W A survey of fundamental issues in Russian phonetics, morphology, and syntax. The course will develop reading, writing, and speaking skills necessary for discussing and analyzing the major linguistic categories of Russian. Includes

the preparation of both written and oral reports. Discussion format; conducted entirely in Russian. Prerequisite: RUSS 508 or equivalent. LEC

RUSS 612 Introduction to Russian Literature (3). H/W Readings for this advanced Russian language class will be drawn from representative prose, poetry, and drama of the 19th or 20th century authors. The course will develop reading, writing, and speaking skills necessary for discussing and analyzing the major texts and literary trends of the Russian tradition. Includes the preparation of both written and oral reports. Discussion format; conducted entirely in Russian. Prerequisite: RUSS 508 or equivalent. LEC

RUSS 616 Stylistics (3). H/W Practical examination of the features of stylistic registers available in contemporary Russian, ranging from slang to colloquial speech to educated journalistic, scientific, and literary styles. The course will develop reading, writing, and speaking skills necessary for discussing and analyzing stylistic registers. Includes the preparation of both written and oral reports. Discussion format; conducted entirely in Russian. Prerequisite: RUSS 508 or equivalent. LEC

RUSS 675 Readings in Russian (1-6). H/W Prerequisite: Two years of Russian, and consent of instructor. IND

● Slavic Languages and Literatures Courses

SLAV 104 Elementary Slavic Language I: _____ (5). U First semester. Essentials of grammar, practice in speaking and writing a Slavic language. Simple readings from selected texts. Course may be used to teach the fundamentals of any Slavic language, for example, Slovenian, Macedonian, Slovak, etc. LEC

SLAV 108 Elementary Slavic Language II: _____ (5). U Second semester. Essentials of grammar, practice in speaking and writing a Slavic language. A continuation of SLAV 104 in those languages whose fundamentals were being taught in SLAV 104. Prerequisite: SLAV 104 or equivalent (in same language). LEC

SLAV 140 Introduction to Russian Culture (3). HT H/W An introduction to the principal achievements of Russian cultural history, with particular emphasis on literature, folklore, spirituality, and the visual arts. LEC

SLAV 141 Introduction to Russian Culture, Honors (3). HT H/W An introduction to the principal achievements of Russian cultural history, with particular emphasis on literature, folklore, spirituality, and the visual arts. LEC

SLAV 144 Survey of Russian Literature in Translation (3). HL H/W A survey of the principal works of Russian literature including such authors as Pushkin, Gogol, Dostoevsky, Tolstoy, Chekhov, Pasternak, Solzhenitsyn, and others. LEC

SLAV 145 Survey of Russian Literature in Translation, Honors (3). HL H/W A survey of the principal works of Russian literature including such authors as Pushkin, Gogol, Dostoevsky, Tolstoy, Chekhov, Pasternak, Solzhenitsyn, and others. LEC

SLAV 148 Introduction to Slavic Folklore (3). HL H/W An introduction to the various forms of folklore among the Slavic peoples, with particular emphasis on the folk literature, customs, and artifacts of Russia, Poland, and the South Slavic countries. LEC

SLAV 149 Introduction to Slavic Folklore, Honors (3). H/W An introduction to the various forms of folklore among the Slavic peoples, with particular emphasis on the folk literature, customs, and artifacts of Russia, Poland, and the South Slavic countries. LEC

SLAV 204 Intermediate Slavic Language I: _____ (3). U Second-year level course in a Slavic language, for example, Slovenian, Macedonian, Slovak, with emphasis on reading, composition, and conversation. Prerequisite: SLAV 108 (in same language). LEC

SLAV 208 Intermediate Slavic Language II: _____ (3). U Second-year level course in a Slavic language, for example, Slovenian, Macedonian, Slovak, with emphasis on reading, composition, and conversation. Prerequisite: SLAV 204 or equivalent (in same language). LEC

SLAV 240 Introduction to the Languages and Peoples of Russia and East-Central Europe (3). HT H The course gives the student an overview of the languages and peoples of Russia and East-Central Europe, including the Slavic and Baltic languages, Romanian, and Albanian. Topics addressed will include language prehistory, writing systems, and the relationship between language and national identity. Emphasis will be on language issues as a background to current events in order to impart an appreciation of the area, its uniqueness and complexity. LEC

SLAV 241 Introduction to the Languages and Peoples of Russia and East-Central Europe, Honors (3). HT H The course gives the student an overview of the languages and peoples of Russia and East-Central Europe, including the Slavic and Baltic languages, Romanian, and Albanian. Topics addressed will include language prehistory, writing systems, and the relationship between language and national identity. Emphasis will be on language issues as a background to current events in order to impart appreciation of the area, its uniqueness and complexity. Prerequisite: Membership in the College Honors Program or consent of instructor. LEC

SLAV 390 Slavic Folk Culture: _____ (3). H/W A broad exposure, both theoretical and practical, to various aspects of the traditional native culture of a particular Slavic country or ethnic group, including folk dance, song and musicianship, as well as forms of the material culture such as folk ar-

chitecture, costumes and art in everyday life. Taught in the pertinent Slavic country in conjunction with the appropriate language course. LEC

SLAV 394 Interpretation of Literature (3). H A study of selected works in literary theory and of selected problems in literary interpretation and comparative literature methodology, designed to examine and apply systematically basic critical principles and approaches. Discussion of these approaches will be related to the previous study of literature and deepened through individual papers written by participants and presented to the group. To take this course for credit in a foreign language, students will be required to do extensive work in that language. (Same as ENGL 308, GERM 560, HWC 390, and SPAN 390.) Prerequisite: Completion of one junior-senior level course in a language and literature department. LEC

SLAV 499 Honors Thesis (3). H/W Independent study and preparation of honors thesis. Required of all students working for a degree with honors in Slavic languages and literatures. IND

SLAV 500 Russia Today (3). H/W Study and discussion of contemporary problems in Russia and the former Soviet Union; readings in Russian, based on articles in newspapers, journals, etc. Conducted in Russian. Prerequisite: RUSS 208 or equivalent. LEC

SLAV 502 Introduction to Russian Culture and Society: _____ (3). H/W An interdisciplinary course introducing the student to the principal features of Russian cultural and societal development in the modern era. Readings in English, no prerequisite for non-Russian majors. Majors and graduate students in Slavic languages and literatures will be required to do readings in Russian. LEC

SLAV 504 Introduction to East-Central European Culture and Society: _____ (3). H/W An interdisciplinary course introducing the student to the principal features of East-Central European cultural and societal development in the modern era. Countries that may be considered are: Poland, the Czech Republic, Slovakia, Hungary, Romania, Bulgaria, the South Slavic countries, Latvia, Lithuania, Estonia, Belorussia, and Ukraine. LEC

SLAV 505 Introduction to Czech Culture (3). H This study-abroad trip offers a survey of Czech art, architecture, literature, theatre, and film from the medieval period to the present with emphasis on the late 19th and 20th centuries. Combines 18 hours of lectures on campus and a ten-day trip to Prague. LEC

SLAV 506 Polish Literature and Civilization (3). H/W A survey of Polish literature from its beginnings to the present, with emphasis upon Renaissance, Romanticism, and Positivism as well as such writers as Kochanowski, Mickiewicz, Sienkiewicz, and Reymont. A broad cultural background provides additional aspects of Polish civilization through the centuries. No knowledge of Polish required. LEC

SLAV 508 South Slavic Literature and Civilization (3). NW H/W An introductory survey of the literature and culture of the South Slavic peoples: the Slovenes, Croats, Moslems, Serbs, Montenegrins, and Macedonians. No language required. LEC

SLAV 510 The Russian Literary Genius (3). H/W Topics and problems in Russian cultural history as treated in the masterworks of Russian literature. Readings selected from the works of Pushkin, Tolstoy, Dostoevsky, Pasternak, Bulgakov, Solzhenitsyn, and other great Russian writers. Readings in English, no prerequisite for non-Russian majors. Russian majors will do some of the readings in Russian. LEC

SLAV 512 Siberia Yesterday and Today (3). NW H/W An interdisciplinary course which examines the geography, peoples, resources, history, culture, and the development of Siberia from its beginnings to the present day. Topics to be covered are selected from the following list: topography and natural resources; indigenous and colonial populations; conquest and exploitation by Russian and other European settlers; role as a place of imprisonment and exile; religions and the plastic arts, theatre and drama, music and folklore; science and technology; economic significance; environmental problems; role in Russian-Chinese and Russian-Japanese relations. Siberia is treated as a distinctive cultural entity formed by the mixture of Russian and indigenous elements. LEC

SLAV 514 Totalitarianism and Literature in Central Europe (3). H The course asks how fiction written in Central Europe engaged and grappled with the totalitarian experience imposed by Nazi and Soviet forms of government. The course focuses on the works by 20th-century Polish, Czech, and Hungarian writers that deal with totalitarianism. (Same as HWC 514.) LEC

SLAV 516 Film Adaptations of Polish and Czech Literature (3). A comparative study of several most representative and best works of 19th- and 20th-century Polish and Czech fiction and drama and their film adaptations. By providing a broad cultural and historical background of the works, the course offers a thorough introduction to modern culture of Poland and the Czech Republic. Readings and discussions are in English, and no knowledge of Polish or Czech is required. LEC

SLAV 520 Russian Phonetics, Phonology, and Inflectional Morphology (3). H/W An analysis of the phonological and morphological systems of contemporary standard Russian, including normative and dialectal pronunciation of speech sounds, phonemics, morphophonemic alterations, and nominal and verbal inflections. Graduate students enrolled in this course will be held to a more stringent curriculum and grading system. Prerequisite: Two years of Russian language study or the equivalent. LEC

SLAV 522 Russian Derivational Morphology, Syntax, and Lexicology (3). H/W An analysis of morphosyntax and the lexicon in contemporary standard Russian, with emphasis on the sentence and its elements. Designed as a continuation of SLAV 520. Graduate students enrolled in this course will be held to a more stringent curriculum and grading system. Prerequisite: Two years of Russian language study or the equivalent. LEC

SLAV 524 Russian Since the Revolution (3). H/W An examination of changes in the Russian language during the course of this century. Topics covered include changes in pronunciation, morphological and syntactic variation, and the impact of foreign borrowings, particularly from English. Graduate students enrolled in this course will be held to a more stringent curriculum and grading system. Prerequisite: Two years of Russian language study or the equivalent. LEC

SLAV 528 Comparative Study of Slavic Literatures (3). H/W The course is intended as an introduction to the most significant writers and works in Slavic literatures. The emphasis will be on some of the themes and ideological concepts that have shaped the literatures of the Slavic world. Representative works of Turgenev, Dostoevsky, Mrozek, Rozewicz, Capek, Hasek, Djilas, Havel, Ivo Andric and others, will be studied. The diversity of expression and, at the same time, homogeneity of spirit in the works of these writers will be stressed. No knowledge of Slavic languages is required. LEC

SLAV 530 Introduction to Russian Poetry (3). H/W An introduction to the principles of Russian versification and to masterpieces of Russian poetry selected from the 18th, 19th, and 20th centuries. Students will learn to read, translate, and analyze poems in terms of rhyme, meter, euphony, metaphor, and other prosodic features. Emphasis will be placed upon preparing students for independent study and appreciation of Russian poetry in the original. Prerequisite: Language proficiency. LEC

SLAV 532 Dostoevsky (3). H/W A study of the life and works of Fyodor Dostoevsky. In translation. No prerequisite. LEC

SLAV 534 Tolstoy (3). H/W A study of the life and works of Leo Tolstoy. In translation. LEC

SLAV 536 Turgenev (3). H/W A study of the life and works of Ivan Turgenev. In translation; however, note that Russian majors will be required to read selected works in Russian. LEC

SLAV 538 The Modern Polish Short Story (3). H/W A study of the development of the Polish short story from Positivism to the present. Readings of major Polish writers including Prus, Sienkiewicz, Schulz, Borowski, Andrzejewski, and others. Emphasis on trends in Polish short story within the context of West European literatures. No prerequisites. Readings in English. Students with knowledge of Polish will read some works in Polish. LEC

SLAV 540 Language and Identity in East-Central Europe and the Former Soviet Union (3). H The course treats the formation of modern nation states as defined by language, where the history of the linguistic community played a central, if mythic role. Focus is on sociolinguistic case studies of the connection between language and identity in the former USSR and Yugoslavia, as well as transnational groups defined by common language and culture. The impact of global English, EU membership, and migration on language and identity issues are also discussed. LEC

SLAV 560 Introduction to Slavic Language: _____ (3). H/W Basic introduction to the language, with emphasis on grammar and reading skills. Prerequisite: Two years of a different Slavic language at the college level. LEC

SLAV 561 Readings in Slavic Language: _____ (1-6). H/W A course of readings and discussion of grammar in that Slavic language the basic grammar of which was taught in SLAV 560, for example, Czech, Bulgarian, Macedonian, Slovenian, etc. Prerequisite: SLAV 560 or the equivalent. LEC

SLAV 562 Russian Theatre and Drama from Stanislavski and Chekhov to the Present (3). H/W A study of the development of Russian Theatre and dramatic literature from 1898 to the present. Lectures and readings in English. (Same as TH&F 725.) LEC

SLAV 566 The Devil in Russian Literature (3). H This course traces the various manifestations of the Devil through Russian and European folklore, myth, theology, culture, and literature. Although the focus is on Russian literature, classic European works are discussed, as they had a powerful impact on the modern Russian Conception of the Evil One. Readings in English. (Same as HWC 566.) LEC

SLAV 568 Biblical Themes in Modern Russian Literature (3). H An exploration of the creative process of modern Russian literature (1700 to present) through the ways in which Russian writers have responded to the Bible, the cornerstone of both Western and Eastern Christianity. LEC

SLAV 600 Biography of a City: _____ (2-4). H/W Examination in depth of the historical, social, intellectual, and artistic development of one or more major Slavic urban centers. LEC

SLAV 612 Introduction to Russian Literature of the Nineteenth Century (3). H/W Pushkin, Dostoevsky, Tolstoy, and others with an introduction to Russian culture. Lectures and readings in Russian. Prerequisite: Three years of Russian language study or its equivalent. LEC

SLAV 614 Russian Literature in Translation: _____ (3). H/W A survey of the principal Russian authors and literary works of the 19th

Courses in Turkish are offered through the Department of Slavic Languages and Literatures.

KU students can access course information through Enroll & Pay, <https://sa.ku.edu>.

and/or 20th century. Readings in English, no prerequisites for non-Russian majors. Students with a sound knowledge of Russian will be expected to do some of the readings in Russian. LEC

SLAV 616 Introduction to Russian Literature of the Twentieth Century (3). H/W A survey of recent Russian and Soviet literature. Lectures and readings in Russian. Prerequisite: Three years of Russian language study or its equivalent. LEC

SLAV 630 Slavic Folklore (3). H/W Introduction to the phenomena and problems of Slavic folklore. Prerequisite: Two years of Russian on the college level. LEC

SLAV 642 Pushkin and Evgeniy Onegin (3). H/W Lectures, reading, and analysis of Pushkin's "novel in verse." Prerequisite: Three years of Russian language courses or the equivalent. LEC

SLAV 650 The Russian Short Story (3). H/W Readings from the short stories of major Russian writers of the 19th and/or 20th centuries, e.g., Pushkin, Gogol, Dostoevsky, Turgenev, Tolstoy, Chekhov; readings and discussion in English for non-Russian majors, Russian majors will be expected to read most stories in Russian. Prerequisite: None for non-majors in the department; two years of college-level Russian for majors. LEC

SLAV 656 Russian Literature of the Eighteenth Century (3). H/W Readings from Kantemir, Trediakovsky, Lomonosov, Derzhavin, Karamzin, and others in their literary and intellectual contexts. Readings in Russian. Prerequisite: Three years of Russian language study or its equivalent. LEC

SLAV 660 Nineteenth-century Russian Prose and Fiction (3). H/W Readings from the prose works of Pushkin, Lermontov, Gogol, Turgenev, Goncharov, Dostoevsky, and Tolstoy. In translation. No prerequisite for non-Russian majors. Russian majors will be required to have achieved senior standing and will read most works in Russian. LEC

SLAV 662 Russian Literary Modernism: 1880-1930 (3). H/W Readings from late Tolstoy through the period of the 1920's. In translation; no prerequisites for non-Russian majors. Russian majors will be required to have achieved senior standing and will read most works in Russian. LEC

SLAV 664 Soviet Russian Literature: 1930-1990 (3). H/W Readings in the period, in all genres. In translation; no prerequisite for non-Russian majors. Russian majors are required to have senior standing and read most works in Russian. LEC

SLAV 667 Post-Soviet Literature (3). H A survey of post-Soviet literary art, from approximately 1985 to the present, dealing with a range of subjects including the emergence of literature from the strictures of socialist realism and its relationship to concepts of postmodernism and postcolonialism. LEC

SLAV 668 Nabokov (3). H/W A study of the life and works of Vladimir Nabokov. In translation. No prerequisite. LEC

SLAV 678 Readings in Slavic Linguistics (1-6). H/W Directed individual readings on various topics concerning Slavic linguistics. Prerequisite: Proficiency in at least one Slavic language, and consent of instructor. IND

SLAV 679 Topics in: _____ (1-6). H Intensive study of a selected topic from Slavic languages, literatures, linguistics, or pedagogy. IND

SLAV 684 Main Currents of Russian Thought I (3). H/W A study of philosophical, theological, and literary monuments designed to acquaint the student with main cultural forces that have shaped Russian thought and manners. From the origins to Peter the Great. (Same as PHIL 684.) LEC

SLAV 686 Main Currents of Russian Thought II (3). H/W A continuation of SLAV 684. From the age of Peter the Great to revolutions of 1917. (Same as PHIL 686.) LEC

SLAV 710 Introduction to Slavic Languages and Linguistics (3).

SLAV 711 Russian Poetry: Nineteenth Century (3).

SLAV 712 Russian Poetry: Twentieth Century (3).

SLAV 714 Russian Theatre and Drama to 1900 (3).

SLAV 715 Russian Drama and Theatre, 1953 to the Present (3).

SLAV 716 History of Russian Literary Criticism: Late Eighteenth and Nineteenth Century (3).

SLAV 719 Philosophical and Aesthetic Thought of the Russian Silver Age (3).

SLAV 721 Pushkin (3).

SLAV 726 Chekhov (3).

SLAV 727 Bely and Blok (3).

SLAV 728 Nineteenth-century Russian Prose (3).

SLAV 730 Russian Emigré Literature (3).

SLAV 740 Bibliography and Methods (3).

SLAV 748 Old Church Slavic (3).

SLAV 750 Introduction to Russian Historical Grammar (3).

SLAV 752 Old Russian Grammar and Texts (3).

SLAV 756 Structure of Russian: _____ (3).

● Turkish Courses

TURK 104 Elementary Turkish I (5). U Basic language acquisition, including essentials of grammar, speaking, and writing standard (Osmanli) Turkish. LEC

TURK 108 Elementary Turkish II (5). U Continuation of TURK 104. Prerequisite: TURK 104. LEC

TURK 204 Intermediate Turkish I (3). U Second-year course in Turkish language with emphasis on reading, composition, and conversation. Prerequisite: TURK 108. LEC

TURK 208 Intermediate Turkish II (3). U Continuation of TURK 204. Prerequisite: TURK 204. LEC

TURK 675 Readings in Turkish: _____ (3). U Prerequisite: Two years of college-level Turkish and consent of instructor. May be repeated for credit if content varies. IND

● Ukrainian Courses

UKRA 104 Elementary Ukrainian I (5). U First semester. Five hours per week of recitation and drill in the spoken language. Essentials of grammar, practice reading, writing and speaking Ukrainian. LEC

UKRA 108 Elementary Ukrainian II (5). U Second semester. Continuation of UKRA 104. Prerequisite: UKRA 104. LEC

UKRA 204 Intermediate Ukrainian I (3). U Second year course in Ukrainian language with emphasis on reading, composition, and conversation. Prerequisite: UKRA 108. LEC

UKRA 208 Intermediate Ukrainian II (3). U Second semester. Continuation of UKRA 204. Prerequisite: UKRA 204. LEC

UKRA 512 Intensive Ukrainian I (5). U A practical Ukrainian language course involving advanced study of the grammar and reading of texts on a variety of subjects, conversation, and composition. Taught in Ukrainian. Prerequisite: Three years of another Slavic language or permission of instructor. LEC

UKRA 516 Intensive Ukrainian II (5). U A continuation of UKRA 512. Prerequisite: UKRA 512. LEC

UKRA 675 Readings in Ukrainian Language (1-6). H Directed individual readings on various topics concerning the Ukrainian language. Prerequisite: Two years of Ukrainian. IND

Sociology

Chair: William G. Staples, socdept@ku.edu
Fraser Hall, 1415 Jayhawk Blvd., Room 716
Lawrence, KS 66045-7556
(785) 864-4111, fax: (785) 864-5280
www.ku.edu/home/socdept

Degrees offered: B.A., B.G.S., M.A., Ph.D.

The department educates sociologists for careers in teaching, research, and some applied fields. Undergraduate course work in sociology can contribute to professional training in architecture, business, education, journalism, law, medicine, public health, and social work. Instruction in sociology enhances students' understanding of social relations and society.

Majors

First- and Second-year Preparation. Prospective majors are encouraged to see a sociology adviser before the beginning of the junior year and to complete at least one of the first- and second-year courses that have no other sociology course as a prerequisite, for example, SOC 104, SOC 105, SOC 150, SOC 151, SOC 160, SOC 161, and SOC 220.

Admission to the Major. Completion of three sociology courses, including SOC 104 and two additional sociology courses, one of which is a 300-level or above course, is required for admission to the major. After this requirement is met, students should apply to the major by filling out a Major Declaration form, available at the main department office. Upon verification of this requirement, a member of the undergraduate studies committee of the sociology department meets with the student to discuss his or her academic plans

and sign the Major Declaration form. The student is responsible for submitting the signed form to 109 Strong Hall. Students are strongly urged to apply to the major by the beginning of the junior year.

Requirements for the B.A. or B.G.S. Major. Sociology majors must complete Liberal Arts and Sciences general education requirements for either the B.A. or the B.G.S. degree and a total of 33 credit hours of course work in sociology. The course work in sociology must include

1. Specifically required courses:
One survey course: SOC 104, SOC 105, or SOC 304
Two research skills courses: SOC 310 and SOC 510
One theory course: SOC 500
2. Fifteen of the remaining 21 credit hours must be in courses numbered 300 or above. No more than 3 hours of SOC 490, SOC 499, SOC 598, and SOC 698 can be used to satisfy this requirement.
3. All sociology course work at the 300-level and above must be completed with a grade-point average of at least 2.0.
4. At least 12 credit hours of courses at the 300 level or above, including SOC 310, SOC 510, and SOC 500, must be taken at KU.
5. These requirements apply to any student declaring a sociology major during or after the fall 2005 semester.

Double Majors. Sociology majors are encouraged to consider a second major in philosophy, history, area studies, or one of the natural or social sciences, or a second degree in journalism or other professional disciplines.

Requirements for the Minor. Students in various disciplines are encouraged to minor in sociology. The minor requires 18 credit hours of course work, including SOC 104 and at least 12 hours of sociology courses at the junior/senior level. A minimum grade-point average of 2.0 is required.

Honors. The student must complete 6 hours of work in SOC 499 culminating in a superior thesis. The thesis must be certified by three members of the College faculty, at least two of whom must be from sociology, nominated by the candidate and approved by the departmental honors coordinator. The student also must achieve a grade-point average of at least 3.5 in sociology and 3.25 overall.

● Sociology Courses

SOC 104 Elements of Sociology (3). SC S The study of social life, including how human groups are organized, how they change, and how they influence individuals. Consideration is given to a variety of human organizations and social institutions and how these groups and institutions both determine, and are determined by, human beings. LEC

SOC 105 Elements of Sociology, Honors (3). SC S The study of social life, including how human groups are organized, how they change, and how they influence individuals. Consideration is given to a variety of human organizations and social institutions and how these groups and institutions both determine, and are determined by, human beings. Open only to students on dean's honor roll or enrolled in Honors Program, or consent of instructor. May not be taken by those who also have credit for SOC 304. LEC

SOC 110 The American Peoples (3). SC S An introduction to the backgrounds, cultures, and institutions of diverse groups in American society. Analysis of American diversity through the study of factors such as ethnicity, race, religion, gender, sexual orientation, region, and age. Not open to students who have taken SOC 112 or AMS 112. (Same as AMS 110.) LEC

SOC 112 The American Peoples, Honors (3). SC S An introduction to the backgrounds, cultures, and institutions of diverse groups in American society. Analysis of American diversity through the study of factors such as ethnicity, race, religion, gender, sexual orientation, region, and age. Not open to students who have taken AMS 110 or SOC 110. (Same as AMS 112.) Prerequisite: Membership in the University Honors Program or approval by the Sociology Department. LEC

SOC 130 Comparative Societies (3). NW S/W Description and analysis of the culture, structure, and development of societies that are historically unrelated to the traditions of Western civilization. LEC

SOC 131 Comparative Societies, Honors (3). NW S Description and analysis of the culture, structure, and development of societies that are historically unrelated to the traditions of Western Civilization. Open only

to students enrolled in the University Honors program or by consent of instructor. May not be taken by students who have credit in SOC 130. LEC

SOC 132 American Society, Honors (3). SC S The social structure and organization of American society with special reference to long-term and recent social changes. Not open to students who have credit for AMS 330 or SOC 330. Open to College honors students, students on the dean's honor roll, and by permission of the department. LEC

SOC 150 Self and Society (3). SI S Discusses the way our identities, values, and behavior have been and continue to be shaped by social and situational factors. Attention is paid to the influence of factors like language, culture, social roles, specific social institutions, and broad structures of inequality and power on how we see ourselves and others. May not be taken by anyone who has completed SOC 305 or its equivalent. LEC

SOC 151 Self and Society, Honors (3). SI S Discusses the way our identities, values, and behavior have been and continue to be shaped by social and situational factors. Attention will be paid to the influence of factors like language and culture, social roles, specific social institutions, and broad structures of inequality and power on how we see ourselves and others. LEC

SOC 160 Social Problems and American Values (3). SF S This course is designed to explore competing explanations for the causes of, and cures for, the enduring problems of American society. The course critically analyzes dominant definitions of social problems, the political and economic roots of these problems, and the public policies aimed at reducing them. May not be taken by anyone who has already completed SOC 306 or its equivalent. LEC

SOC 161 Social Problems and American Values, Honors (3). SF S This is a course designed to explore competing explanations for the causes of and cures for the enduring problems of American society. The course critically analyzes dominant definitions of social problems, the political and economic roots of these problems, and the public policies aimed at reducing them. Open only to students on dean's honor roll or enrolled in Honors Program, or consent of instructor. May not be taken by those who also have credit for SOC 304. LEC

SOC 220 Sociology of Families (3). SC S Analysis of the family as a social institution primarily in the U.S. context. Topics considered are: current and historical changes in how the family is constituted, contrasting sociological theories of family relationships, sexuality in relation to family life, the coexistence of love and hate in families, family dissolution and reformation, and the care of children. A key theme is diversity: social class, gender, race/ethnicity, and age. May not be taken by anyone who has already taken SOC 308 or its equivalent. LEC

SOC 273 Women in Society (3). S A sociological exploration of the image and status of women in society, including family, work, and politics. Socialization, education, and the women's movement are also analyzed. Includes an introduction to feminist theories in sociology. LEC

SOC 304 Principles of Sociology (3). SC S An introduction to sociological concepts, methods, and substantive findings more intensive than that provided in SOC 104. LEC

SOC 305 Principles of Self and Society (3). SI S Discusses the way our identities, values, and behavior have been and continue to be shaped by social and situational factors. Attention is paid to the influence of factors like language, culture, social roles, specific social institutions, and broad structures of inequality and power on how we see ourselves and others. This course provides a more intensive coverage of the subject matter than that provided in SOC 150. May not be taken by anyone who has already taken SOC 150 or its equivalent. LEC

SOC 306 Principles of Social Problems (3). SF S This course is designed to explore competing explanations for the causes of, and cures for, the enduring problems of American society. The course critically analyzes dominant definitions of social problems, the political and economic roots of these problems, and the public policies aimed at reducing them. This course provides a more intensive coverage of the subject matter than that provided in SOC 160. May not be taken by anyone who has already completed SOC 160 or its equivalent. LEC

SOC 308 Principles of Family Sociology (3). SC S Analysis of the family as a social institution primarily in the U.S. context. Topics considered are: current and historical changes in how the family is constituted, contrasting sociological theories of family relationships, sexuality in relation to family life, the coexistence of love and hate in families, family dissolution and reformation, and the care of children. A key theme is diversity: social class, gender, race/ethnicity, and age. This course provides a more intensive coverage of the subject matter than that provided in SOC 220. May not be taken by anyone who has already taken SOC 220 or its equivalent. LEC

SOC 310 Introduction to Social Research (3). S An introduction to the nature and methods of social research. Topics may include: hypothesis formulation and testing; how to design a research project, collect and analyze data; elementary statistical procedures; and ethical issues. Prerequisite: A principal course in sociology. LEC

SOC 320 Organizations in Society (3). S An analysis of complex organizations in modern societies. Attention is given to the rise of bureaucracy in business and government; the way organizations influence and respond to

Seven KU students have become Marshall scholars.

"Lawrence, with its myriad boutiques, restaurants, and bars, receives rave reviews from students." —2006 Fiske Guide to Colleges

their social cultural environments; and the various roles that individuals play in organizations. Prerequisite: A principal course in sociology. LEC

SOC 326 Health, Gender, and Society (3). S Comparative examination of the health status of men and women in relation to key elements of contemporary societies, including not only medicine and health care services, but also systems of social inequality and stratification, cultural constructions of gender, and social policies. Emphasis will be placed on the U.S.; however, the course also will provide international comparisons and an overall global context. LEC

SOC 330 American Society (3). S The social structure and organization of American society with special reference to long-term and recent social changes. (Same as AMS 330.) Not open to students with credit for SOC 132. Prerequisite: A principal course in sociology. LEC

SOC 332 The United States in Global Context (3). S An examination of the historical, social, cultural, economic, religious, and political context of the development of the United States and its role as a global power. The primary focus will be on the dynamic role of the United States in a global context—in other words, on assessing the impact of broad external forces on the United States and the global impact of American policies and practices. Among the issues the course will examine are the role of race, ethnicity, migration, technology, communications and media, popular culture, language, domestic and transnational organizations, as well as economic, political, religious, and educational institutions. (Same as AMS 332.) LEC

SOC 340 The Community (3). S Structures, functions, and processes of change in local communities; interrelations of towns and small cities with rural areas and metropolitan centers with their hinterlands. Prerequisite: A principal course in sociology or ANTH 108 or ANTH 308. LEC

SOC 341 Urban Sociology (3). S Examination of the process of urbanization in modern societies, including the size, growth, functions, and ecology of cities and systems of cities; such urban social institutions as the economy, politics, and the family; and major contemporary urban policies and problems. Each topic will be analyzed from several sociological perspectives. Prerequisite: A principal course in sociology. LEC

SOC 350 Sociology of Transnational Migration (3). S A sociological exploration of social, cultural, demographic, health, and environmental issues associated with transnational migration, with a special focus on Africa and the African diaspora. Analytic themes will be drawn from migrations and diasporas in places such as Asia and Latin America as well. The aim is to critically examine the increasing interconnectedness of the world's peoples. Prerequisite: A principal course in sociology. LEC

SOC 352 Sociology of Sex Roles (3). S An examination of sex roles, sex stereotypes, and major issues involved in sex-role research. Emphasizes explanations of inequality between American males and females in the family and at work. The course is designed around lectures, panels, workshops, and films. LEC

SOC 353 Principles of Psychological Sociology (3). S The concepts, methods, and substantive findings of psychological sociology studied more intensively than those in SOC 150. LEC

SOC 360 Sociology of Social Control (3). S This course examines changing methods of social control in society. Social control can be formal (e.g., law and criminal justice system) or informal (e.g., families, peer groups). This course examines the ways that we, as a society, attempt to respond to matters such as deviance, illness, crime, and poverty. This course will survey the many varieties of formal and informal social control faced by individuals in society, and the ways in which individuals resist and conform to various disciplinary and control regimes. Prerequisite: a principal course in Sociology. LEC

SOC 364 Society, Popular Culture, and the Media (3). S An overview of sociological theory and research on culture created and distributed through the mass media and its role in shaping our common sense interpretations of our daily lives. Topics include the social organization of the media, the relation between popular culture and the media, themes communicated in various elements of popular culture, and how various groups interpret cultural messages and incorporate them in their lives. LEC

SOC 365 Society, Popular Culture, and the Media, Honors (3). S Similar in content to SOC 364. An overview of sociological theory and research on culture created and distributed through the mass media and its role in shaping our common sense interpretations of our daily lives. Topics include the social organization of the media, the relation between popular culture and the media, themes communicated in various elements of popular culture, and how various groups interpret cultural messages and incorporate them in their lives. Prerequisite: Membership in the University Honors Program or consent of instructor. LEC

SOC 370 Conflict Resolution (3). S This course is an introduction to the field of conflict resolution. Collaborative approaches to dealing with conflict will be examined from the micro, interpersonal group level to the macro, organizational level. The causes and consequences of conflict will be presented as well as problem solving techniques for the resolution of conflict in social groups. LEC

SOC 371 Marginal Groups and Subcultures (3). S The sociological study of groups that differ from the mainstream practices of their societies and of conditions affecting their careers. The primary objectives are to introduce and analytically apply sociological conceptualizations of groups,

group careers, group mainstream interactions, and participant orientations. The principal cases examined are the Hutterites, the Shakers, and the Oneida Community, supplemented by briefer analyses of a variety of other groups. Questions concerning the formation, organization, processes, participants, and transformations of groups are emphasized. LEC

SOC 385 Environmental Sociology (3). S This course invites students to study society and its impact on the environment. Environmental problems are social problems. This course will address such items as social paradigms, theories, inequalities, movements, and research. (Same as EVRN 385.) LEC

SOC 450 Gender and Society (3). S An overview of sociological theory and research on the social practices constructing men and women as "opposites" and creating systematic inequality between them in class, race, and nation-specific ways. We consider arguments and evidence that gender is something we are, something we do, a part of every social institution, and a major aspect of how we are organized as a society. LEC

SOC 490 Internship in Sociology (3). S The purpose of this course is to encourage students to think sociologically about social issues by working as volunteer interns for non-profit community or campus organizations. Enrollment must be approved by the departmental Undergraduate Studies Committee. See the department's Director of Undergraduate Studies for guidelines. Prerequisite: 21 credits in sociology with a 3.0 GPA and permission of the instructor. FLD

SOC 495 Honors Course (3-6). S Intensive study and research under faculty direction including the writing of a thesis. Enrollment may be split between two semesters, but no grade will be given until completion of the thesis. Admission to honors candidacy is open only to students who have shown a marked capability for independent study and have completed SOC 304, and either SOC 310 or SOC 500. IND

SOC 500 Sociological Theory (3). S An introduction to the principal texts in sociological theory and the ideas that made them important. Primary materials are emphasized, ranging from medieval to the current age. The goal of the course is to show continuity and change in the theoretical tradition of sociology, and to demonstrate the continued importance of classical ideas. Prerequisite: A principal course in sociology. LEC

SOC 510 Elementary Statistics and Data Analysis (3). S An introduction to social scientific data analysis, with an emphasis on descriptive and inferential statistics. Specific topics include sampling, measures of association and correlation, significance testing, the logic of causal inference, the use of computer programs for data analysis, multivariate analysis, and the critical evaluation of social science research findings. Prerequisite: SOC 104 or instructor permission. LEC

SOC 515 Applied Sociology (3). S The practical use of sociological theory and research in the development and implementation of social policy by agencies and institutions of the society. The objects to be explored include the social planning process; legal, ethical, and practical limits of social planning; and experimentation with institutional policies. The research issues to be dealt with include selection of policy-relevant research topics; legal, ethical, and contractual issues in research; overspecialization of past research; and the patterns of communication between academic and non-academic sociologists. The research methods covered will include modes of evaluation research, action research, and case study, primarily by qualitative means. LEC

SOC 520 Groups and Associations (3). S A comparative study of groups, associations, and institutions as types of social systems with special attention to structural characteristics and organizational processes; the nature of membership and leadership, including recruitment, selection and training; the social position, relationship, and function of these groups in communities and societies. Prerequisite: A principal course in sociology. LEC

SOC 521 Wealth, Power, and Inequality (3). S This class focuses on economic inequality and the political and social forces that create and sustain it in the United States and internationally. The variables of race, ethnicity, status, and gender are analyzed as they relate to the differences in the distribution of wealth and power, and attention is paid to how these multiple variables shape opportunities. LEC

SOC 522 American Racial and Ethnic Relations (3). S Analysis of the basic sociological concepts that apply to majority/minority relations; with special emphasis on racial and ethnic interaction in the United States. (Same as AMS 522.) Prerequisite: A principal course in sociology. LEC

SOC 523 Sociology of Aging and the Life Course (3). S An advanced survey of theory and research in social gerontology, giving primary attention to aging and the aged as affected by social organization, including such social institutions as familial, economic, political, and health care; organizational processes such as social stratification; and living environments including community and housing. In these contexts, certain demographic, cross-cultural, social-psychological, and physiological aspects of aging will also be considered. Prerequisite: A principal course in sociology. LEC

SOC 524 Sociology of the Economy (3). S An analysis of the social organization of production with attention being given to such topics as: world economic crises and their social bases, capitalist and socialist economies, primitive and advanced economic systems, multinational corporations, the nature of housework, and the transformation of economic systems. Prerequisite: A principal course in sociology. LEC

The National Survey of Student Engagement Institute at Indiana University selected KU as one of 20 U.S. universities with effective educational practices that merited further study. The final NSSE report said, “The institution’s emphasis on undergraduate teaching and learning is commendable.” For more information, see www.iub.edu/~nsse.

SOC 525 Sociology of Work (3). S A consideration of problems in the conceptual and empirical definition of occupations and professions. It will involve the examination of the process of professionalization, the differentiation and integration of labor, career patterns, the work situation, the study of leisure, and the social consequences of changes in occupations and professions. Prerequisite: A principal course in sociology. LEC

SOC 526 Industrial Sociology (3). S A study of group relationships in business and industry; the structure and interaction of formal and informal organizations; conflict patterns and modes of cooperative integration as they affect teamwork and production; the interrelations of industry and the community. Prerequisite: A principal course in sociology or ANTH 108 or ANTH 308. LEC

SOC 530 Industrial Revolution and Capitalist Development (3). S Focuses on the social forces that generated industrial capitalism. Emphasis will be on comparative social structures and their meaning for the nature and quality of life. The transformation from medieval to mercantilist to industrial capitalism will be analyzed in detail. Possibilities of post-industrial society will be discussed. This course will consider exclusively Western development. Prerequisite: A principal course in sociology. LEC

SOC 531 Global Social Change (3). S Comparative study of social, economic, political, and ideological factors influencing global social change, and analysis of different theoretical orientations related to social change in various societies. Prerequisite: A principal course in Sociology. LEC

SOC 533 Industrialization in Developing Nations (3). S Comparative study of problems associated with industrialization in developing nations, including population problems, unemployment, social and welfare problems, and various political issues. Prerequisite: A principal course in sociology. LEC

SOC 534 Comparative Racial and Ethnic Relations (3). NW S An examination of constructions of race and ethnicity around the world. Emphasis is on the social, political, historical, cultural and economic factors that lead to the creation of ethnic and racial identities, ethnic conflict and accommodation, ethnic movements, and ethnic political organization. Racial and ethnic relations in the U.S. are compared with other countries. Major focus is placed on ethnicity in Africa, Asia, Latin America, the Caribbean and/or the Middle East. (Same as AAAS 510 and AMS 534.) LEC

SOC 535 Gender in the Global Context (3). S This course examines gender roles and identity in the global context and focuses specifically on historical comparative analysis of women’s participation in—and impact on—social, political, economic, and cultural aspects of their communities and nations. Major emphasis will be placed on women in Africa, Asia, Latin America, and the Middle East. Prerequisite: A principal course in Sociology. LEC

SOC 536 Ethnicity in the United States: _____ (3). S An examination of the history, sociology, and culture of U.S. ethnic categories (e.g., American Indians, Latinos, Asian Americans, Jewish Americans, Irish Americans). The specific group studied varies from semester to semester. Course may be repeated for credit. (Same as AMS 536.) Prerequisite: A principal course in American Studies, Sociology, or Anthropology, or permission of instructor. LEC

SOC 536 Ethnicity in the United States: _____ (3). S An examination of the history, sociology, and culture of U.S. ethnic categories (e.g., American Indians, Latinos, Asian Americans, Jewish Americans, Irish Americans). The specific group studied varies from semester to semester. Course may be repeated for credit. (Same as AMS 536.) Prerequisite: A principal course in American Studies, Sociology, or Anthropology, or permission of instructor. LEC

SOC 560 Law and Criminal Justice (3). S An analysis of the sources and procedures of development of the criminal law and analysis of the practices of law enforcement, prosecution, and judicial action, principally in the United States. Prerequisite: A principal course in sociology. LEC

SOC 561 Sociology of Deviance (3). S General analysis of the ways in which individuals and actions come to be defined as deviant in a society, including the political, economic, social, and cultural processes of labeling, rulemaking, and rule breaking: Why are some acts and groups considered deviant at some points in time and in some places, but not in others? Prerequisite: A principal course in sociology. LEC

SOC 562 Sociology of Law (3). S A survey of the effects of social structure, societal values, and social change upon the creation and alteration of law. Various perspectives from the social sciences will be employed in the introductory examination of the general place of law in societies. The emphasis of the course will be on the sociological analysis of law in Western history as well as the present. Prerequisite: A principal course in sociology. LEC

SOC 570 Social Conflict (3). S The nature of social conflict, with special emphasis on the more persistent conflict areas of modern social life such as industrial, racial, religious, and national conflicts. Prerequisite: A principal course in sociology. LEC

SOC 571 Collective Behavior (3). S An analysis of such collective phenomena as crowd behavior, social epidemics, fads, fashions, popular crazes, and mass movements; the nature of the public; functional analysis of public opinion; the problems of democracy as viewed from the standpoint of organizing collective action. Prerequisite: A principal course in sociology. LEC

SOC 572 Dispute Settlement (3). S Processes of negotiation and mediation in settling disputes in communities and organizations over controversial issues, policies, and decisions. Knowledge of skills are developed through studying theories and research findings, and by case analysis, role playing, and simulation. LEC

SOC 573 Sociology of Violence (3). S This course will examine violence in social and political life. The causes and consequences of various types of violence will be examined in a variety of social settings. Examples include violence in the family, schools, the workplace, violence in cities, and violence as a part of the political process: assassination, revolution, coups, terrorism, and government repression. Prerequisite: A principal course in sociology. LEC

SOC 598 Practicum in Crime and Delinquency Studies (3-6). S A one- or two-semester course in which students are provided the opportunity, as interns, to gain practical experience working in the criminal justice system agency. A report in the format of a research paper is required at the conclusion of the practicum. Open only to Crime and Delinquency Studies majors. Prerequisite: Consent of the instructor. FLD

SOC 600 Sociological Perspectives: _____ (3). S Analysis of various sociological perspectives and/or the application of various perspectives to a given social phenomenon. May be repeated as topics vary. Prerequisite: A principal course in sociology. LEC

SOC 601 Introduction to Feminist Social Theory (3). S Feminist theories accord a central role to gender and the oppression of women in developing an analysis of social life. This course will explore and evaluate accounts of social structure, social processes, and consciousness developed from a feminist perspective. A broad range of theoretical models will be presented, drawing on liberal, historical materialist, psychoanalytical, cultural, and Black feminist theories. Prerequisite: A principal course in Sociology and at least junior standing. LEC

SOC 610 Survey Research (3). S Methods and techniques of collecting and analyzing social data obtained by interviewing a sample of the population. Practice through field work and laboratory analysis. LEC

SOC 617 Women and Health Care (3). S Critical analysis of the current health status and health needs of women, exploring how lay, medical, and research assumptions have influenced both the clinical/scientific literature and the organization of health services. The course includes a focus on historical patterns in women’s health issues and social change actions. (Same as HP&M 620.) LEC

SOC 618 The Sociology of Pharmacy (3). S A course designed to explore the social scientific aspects of the pharmacy profession, including: salient social issues within the profession, pharmacy’s interactions with other professions and occupations, patient-pharmacist cooperation, the effects of society on the pharmacy profession, and the effects of the pharmacy profession and pharmaceuticals on society. LEC

SOC 619 Political Sociology (3). S The study of politics and society in the United States and abroad, including power and authority who has them, how are they acquired, when are they challenged; state formation, the expansion of central governments, and patterns of political domination; political and nationalist movements; the politics of gender, class, race, and ethnicity; political culture and ideology; ethnic and nationalist conflict; revolution and political change. Prerequisite: A principal course in sociology or consent of instructor. LEC

SOC 620 Social Organization (3). S Comparative analysis of social organization in simple and complex societies. Consideration of the process of differentiation, specialization, institutionalization, and change, with special attention given to the emergence of intergroup and interorganizational forms of social organization typical of complex societies. Prerequisite: A principal course in sociology. LEC

SOC 621 Cross-cultural Sociology (3). NW SA A systematic introduction to cross-cultural issues from the standpoint of sociology, designed to acquaint students with the full range of substantive and methodological issues that arise in comparative sociological inquiry, with a primary focus on non-western societies. Specific topics to be addressed may include war and peace, stratification and inequality, race and ethnicity, and political authority and power, all viewed in the light of cross-cultural research and theory. Prerequisite: A previous Sociology course or consent of instructor. LEC

SOC 622 Sociology of Science (3). S The social roles of science in relation to other institutions, to technology, and to social change; and, within the scientific community, enculturation, information-flow, creativity, decision-making, administration, and leadership. Prerequisite: A principal course in sociology. LEC

SOC 623 Women and Work (3). S Sociological investigation of women’s changing relationship to paid and unpaid labor in the economy and the family. Several theories are compared in these contexts: Characteristics of employed women, including occupational distribution and pay; women’s experiences in “traditional” and “nontraditional” occupations, including professions and management; socialization and education for employment; integration of marriage, housework, and child care; anti-discriminatory laws and policies. Prerequisite: A principal course in Sociology, plus junior-senior or graduate standing. LEC

SOC 624 Sociology of Health and Medicine (3). S An introduction to medical sociology. Examination of social influences on illness and disease, the seeking of medical help, playing the sick role, and epidemi-

ology; sociological theory and research on medical and health-care occupations, hospitals, medical technologies; and drug treatment, rural health, patient advocacy, and other contemporary issues. LEC

SOC 625 Work Roles in Health and Medicine (3). S A sociological examination of medical and health-care occupations and professions. The selection of careers, socialization processes, and the development of professional identities. Interactions among practitioners, health-care teams, consumers, and professional and community power structures. Control and coordination of work. The impact of increasing specialization and changes in the demographic makeup of client and professional populations. Coping with medical failure and other problems inherent in medical and health-care work. LEC

SOC 626 Religion and Society (3). S A comparative study of the nature of religion in human societies both primitive and civilized; the functioning of religion for the community and the individual; the analysis of belief, myths, rituals, sacred attitudes, cults, religious movements, and church organization. Prerequisite: A principal course in sociology or ANTH 108 or ANTH 308. LEC

SOC 627 School and Society (3). S Principal focus on elementary, secondary, and collegiate school systems with some attention given to educational subsystems within other institutions. Among the topics to be considered are the following: the school as a social system, socialization and socializing organizations, education and social stratification, and schools in the urban environment. Prerequisite: A principal course in sociology. LEC

SOC 628 Sociology of the Family (3). S A sociological study of the family as a basic institution; cultural background of the modern family and changes affecting its stability; problems of family disorganization and constructive measures for dealing with them. Prerequisite: A principal course in sociology. LEC

SOC 629 Sociology of Sport (3). S Examination of organized sport as a social institution and its relation to other social institutions (e.g., political, economic, educational, and religious), with special emphasis on American society. Analysis of the social correlates of sports participation and a consideration of the role of sport in social change. (Same as AMS 629.) Prerequisite: A principal course in sociology. LEC

SOC 630 Latin American Society (3). S/W Aspects of the social organization of main Latin American nations, including, e.g., race/ethnicity, social class, gender, urbanization, socioeconomic development, revolution, and relations with the U.S. Emphasis on sociological theories of Latin American development. Prerequisite: A principal course in Sociology or ANTH 108 or ANTH 308, plus junior-senior or graduate standing. LEC

SOC 633 Traditional Rural China and the Communist Revolution (3). NW S/W A seminar exploring traditional rural Chinese society, power relations in the countryside, rural decay, and revolution. Selections from sociologists, historians, and anthropologists. One two-hour discussion session per week. LEC

SOC 634 The Sociology of Culture (3). S An introduction to a branch of sociology, mainly European in origin, that considers the relation between social structure and "high" and "mass" culture. Specific theories of these relations will be applied to works of literature, the fine arts, or music. Some preliminary acquaintance with these subjects is desirable but not mandatory for admission to the course. LEC

SOC 660 Sociology of Mental Illness (3). S The sociology of mental illness concerns itself with the study of mental disorders as social phenomena. The course will be concerned with (1) the social factors and social processes that contribute to mental disorders, (2) the social definitions of mental disorders as forms of social deviance, (3) the social facets in the treatment and care of disordered persons, and (4) the social aspects of the prevention of mental disorders. Prerequisite: A principal course in sociology. LEC

SOC 661 Causation of Crime and Delinquency (3). S The individual and social processes that produce violation of legal norms, dealing with society's responses to these violations only insofar as the responses influence the violators. Prerequisite: A principal course in sociology. LEC

SOC 662 Corrections (3). S Legal systems for handling offenders and the development of the laws creating these systems. Emphasis on the various parts (police, courts, probation, penal institutions, and parole) of the system will vary. Prerequisite: A principal course in sociology. LEC

SOC 671 Social Movements (3). S Social movements as collective action to establish forms of social organization; consideration of reform, revolutionary, sectarian and fashion movements; ideology, esprit de corps, morale and leadership as factors in development and organization. Prerequisite: A principal course in sociology. LEC

SOC 672 Sociology of War and Peace (3). S Descriptive and analytic account of cold and hot wars. The concept of enemy. Types of war. Emphasis on personal and collective action in warlike situations. War and international politics. The ideologies of war from the classics to the present. Prerequisite: A principal course in sociology. LEC

SOC 698 Individual Undergraduate Research (1-12). S Library or field research either as part of an ongoing project or as an independent study project. One to twelve hours. May be taken from one or more faculty during one or more semesters, the total hours not to exceed 12. No more than 3 credits may be applied to satisfy requirements for the sociology major. Prerequisite: Two courses in sociology and consent of instructor. IND

SOC 707 Seminar in Historical Sociology (1-4).

SOC 722 Sociology of Gender (3).

SOC 760 Social Inequality (3).

SOC 762 Seminar in Social Deviation and Control: ____ (3).

SOC 767 Gerontology Proseminar (3).

SOC 770 Social Systems and Social Change in the United States (3).

SOC 771 Intergroup Relations and Conflict in American Society (3).

SOC 780 Advanced Topics in Sociology: ____ (3).

SOC 790 M.A. Proseminar (3).

Spanish and Portuguese

Chair

Wescoe Hall, 1445 Jayhawk Blvd., Room 3062

Lawrence, KS 66045-7590

(785) 864-3851, www.ku.edu/~spanport

Degrees offered: B.A., M.A., Ph.D.

The department offers course work for students seeking proficiency in a foreign language and for majors in Spanish or a related field.

Courses for Nonmajors

Students may fulfill the College foreign language requirement by (1) passing the proficiency examination or (2) completing SPAN 216 or PORT 216 or (3) completing a course in Spanish or Portuguese that has SPAN 216 or PORT 216 as a prerequisite. Candidates for the B.S. in education who are majoring or minoring in Spanish or minoring in Portuguese should see the School of Education chapter of this catalog.

Placement

Students who have had no study of Spanish in high school should seek permission to enroll in SPAN 104. For permission to enroll in this course, a student must show his or her high school transcript to the pre-advising specialist in the Department of Spanish and Portuguese. Students who have had limited study of Spanish (one to three years in high school or one semester of Spanish at another institution of higher learning, equivalent to SPAN 104/SPAN 105) and do not place in the intermediate level should enroll in SPAN 111. Only students who complete SPAN 104 or SPAN 105 at KU are eligible to enroll in SPAN 108.

Students with two to four years of high school Spanish can place into the intermediate level (SPAN 212, SPAN 216, or SPAN 220) by taking the placement examination and consulting the pre-advising specialist.

Students registered with Disability Resources should contact them for placement advising.

On the basis of examination scores and consultation with the student, the department may grant 0, 3, or 6 credit hours for the CEEB Advanced Placement program. Students should have their examination and scores forwarded to the department chair.

Retroactive Credit. Students with no prior college or university Spanish course credit are eligible for retroactive credit according to this formula:

Three hours of retroactive credit are awarded to a student who enrolls initially at KU in a third-level Spanish course (SPAN 212) and receives a grade of C or higher.

Six hours of retroactive credit are awarded to a student who enrolls initially at KU in a fourth-level Spanish course (SPAN 216) and receives a grade of C or higher.

Nine hours of retroactive credit are awarded to a student who enrolls initially at KU in a 3-credit-hour Spanish course with a fourth-level course as a prerequisite and receives a grade of C or higher.

Students interested in retroactive credit should consult the department before enrolling.

Students entering KU with previous study of Portuguese should take the Portuguese placement examination, administered by the department.

Majors

First- and Second-year Preparation. Prospective majors in Spanish find their programs easier to arrange if by the end of the sophomore year they have completed SPAN 324 and SPAN 328 or their equivalents. SPAN 340 also should be completed during this time.

To declare a major in Spanish, a student (1) must have completed 30 hours of college-level course work, (2) must have an overall KU grade-point average of 2.0 at the time of declaration, (3) must have completed SPAN 324 and SPAN 340 with a grade of B or higher in each, and (4) must consult an adviser in the department before being admitted.

Requirements for the B.A. Major. A total of 28 credit hours is required.

SPAN 340 Textual Analysis and Critical Reading	3
Two 400-level literature courses (one Peninsular course and one Spanish-American course)	6
SPAN 424 Advanced Spanish Composition and Grammar	3
One 400- to 500-level language course	3
One of the advanced Spanish conversation courses:	1
SPAN 329 Intermediate Spanish Conversation II (1)	
SPAN 428 Advanced Spanish Conversation (1)	
One 500-level literature course	3
One 500-level language course	3
Students may use PORT 212 or higher (except PORT 300 and PORT 611) to satisfy this requirement.	
Two elective courses at the 400- or 500-level	6
(Must be courses not used to satisfy other requirements)	
Students may use PORT 212 or higher (except PORT 300 and PORT 611) to satisfy this requirement.	

Honors. Students contemplating honors work should consult their advisers in the junior year. A declaration of intent form must be submitted to the department. The department notifies students of acceptance to candidacy. At graduation, the student must have a minimum grade-point average of 3.25 overall and 3.5 in Spanish. Six hours in SPAN 496 Honors in Spanish generally are required. The student writes two honors papers under the supervision of one or more faculty members. A committee of three faculty members evaluates these papers, and the student makes an oral summary of their content.

Study Abroad

The department offers summer programs in Barcelona, Spain; Puebla, Mexico; and Vitória-Vila Velha, Brazil. KU offers semester/academic year programs in San José, Costa Rica; and in Ronda and Santiago de Compostela, Spain. Contact the Office of Study Abroad for information.

● Portuguese Courses

PORT 104 Elementary Brazilian Portuguese I (5). U Five hours of class per week, plus supplementary work in language laboratory. Essentials of grammar, elementary syntax and composition, easy reading. Emphasis on conversation. LEC

PORT 106 Elementary Brazilian Portuguese, Accelerated I (3). U Three meetings weekly, plus supplementary work in language laboratory. Designed for students proficient in Spanish (or with previous work in Portuguese) to acquire proficiency in Portuguese more rapidly. Covers the same material as PORT 104. Prerequisite: SPAN 216 or equivalent. LEC

PORT 108 Elementary Brazilian Portuguese II (5). U Five hours of class per week plus supplementary work in language laboratory. A continuation of PORT 104. Prerequisite: PORT 104. LEC

PORT 110 Elementary Brazilian Portuguese, Accelerated II (3). U A continuation of PORT 106. Prerequisite: PORT 106. LEC

PORT 212 Intermediate Brazilian Portuguese I (3). U A review of Brazilian Portuguese grammar, with practice in reading, composition, and conversation through the study and discussion of Brazilian prose selections. Prerequisite: PORT 108 or PORT 110. LEC

PORT 216 Intermediate Brazilian Portuguese II (3). U A continuation of PORT 212. Prerequisite: PORT 212. LEC

PORT 220 Intensive Intermediate Brazilian Portuguese (3-6). U Five hours of class and an additional hour in the language laboratory. The course is designed for students who began the study of Portuguese in PORT 106 and PORT 110, and for superior students in PORT 104 and PORT 108. The material covered is the same as in PORT 212 and PORT 216. Prerequisite: PORT 110, PORT 108 with a grade of A or B, or consent of instructor. Open only to members of the Summer Language Institute in Vitória-Vila Velha, Brazil. LEC

PORT 300 Brazilian Culture (3). HT H Prehistoric and colonial Portuguese origins of Brazil and its independent development in the nineteenth and twentieth centuries. Key aspects of economic, political, and social factors; special attention to intellectual history. Readings in English. LEC

PORT 320 Introduction to Portuguese and Brazilian Literatures (3). H/W A more advanced reading course serving as an introduction to the study of Luso-Brazilian literature, with discussion in Portuguese of the material read. Prerequisite: A fourth semester course in Portuguese or consent of instructor. LEC

PORT 340 Textual Analysis and Critical Reading (3). H Introduction to Brazilian cultural and literary studies. Critical readings and interpretation of Brazilian cultural expressions with emphasis on acquiring the skills and vocabulary for discussing and writing critical analyses. Conducted in Portuguese. Not open to students who have taken PORT 540. Prerequisite: Grade of A or B in PORT 216 or consent of instructor. LEC

PORT 347 Brazilian Studies: ____ (3). H A topics course dedicated to the study of special historical moments, topics, authors, or themes in literary and cultural history. The course may cover multiple genres and periods. Course conducted in Portuguese and may be repeated for credit as the topic varies. Not open to students who have taken PORT 547. Prerequisite: PORT 216 or consent of instructor. LEC

PORT 348 Portuguese Language and Brazilian Culture for Business (3). H Cultural studies approach to contemporary Brazilian society for students interested in business. Explores how Brazilians negotiate their place in a global cultural context and how they perceive business (negocios). Readings include selections from literature, history, journalism, social analysis, and popular culture. Exercises help English speakers develop analytical skills as well as vocabulary and communication skills related to business and professional life in Brazil. Conducted in Portuguese. Not open to students who have taken PORT 548. Prerequisite: PORT 216 or consent of instructor. LEC

PORT 365 Studies in Brazilian Film: ____ (3). H A theoretical and historical approach to Brazilian film with particular attention to thematic concerns, such as cultural and national identity, and literary discourse. Given in Portuguese or English. May be repeated for credit as topic varies. Students will be expected to attend film screenings in addition to regular class meetings. Not open to students who have taken PORT 565. Prerequisite: Consent of instructor. LEC

PORT 388 Intermediate Brazilian Portuguese Conversation (1). U Two recitations weekly. Prerequisite: PORT 104 or PORT 106. LEC

PORT 394 Special Readings in Brazilian Studies (1-3). H Direct readings in (a) fields not covered by student's course work, and/or (b) field of student's special interest approved by the department. May be repeated for credit if content varies. Prerequisite: PORT 216 and three hours upper-division credit in Portuguese, or consent of instructor. LEC

PORT 471 Studies in Brazilian Culture and Civilization: ____ (3). H A study of Brazilian culture with emphasis on one or more of the following aspects: history, politics, ethnology, anthropology, religious and secular traditions, issues of cultural identity, music, art, architecture, and popular culture. Available only to study-abroad participants. May be repeated for credit if content varies. LEC

PORT 475 Studies in Brazilian Literature: ____ (3). H A study of the literature of a particular author, group of authors, period, genre, region, or theme. Available only to study-abroad participants. May be repeated for credit if content varies. LEC

PORT 488 Advanced Brazilian Portuguese Conversation (1). U Two recitations weekly. More advanced than PORT 388. Prerequisite: PORT 108, PORT 110, or PORT 388. LEC

PORT 490 Intensive Advanced Portuguese (3-6). H/W Advanced composition, conversation, and stylistics, plus an introduction to Brazilian culture. Offered only during the Summer Language Institute in Brazil. Prerequisite: Four semesters of Portuguese, or consent of instructor. Open only to members of the Summer Language Institute in Vitória-Vila Velha, Brazil. LEC

PORT 509 Phonetics (2). H/W A study of the phonology of the carioca (Rio de Janeiro) dialect of Brazilian Portuguese, and an introduction to other major Brazilian and Portuguese dialects. Prerequisite: Nine hours of Portuguese, or consent of instructor. LEC

The Ermal Garinger Academic Resource Center, 4069 Wescoe Hall, (785) 864-4759, offers audio cassettes that complement beginning language texts.

Watson Library houses periodicals, microforms, and computer workstations, in addition to most of KU's more than 3.8 million volumes of printed materials.

- PORT 540 Textual Analysis and Critical Reading** (3). H A more intensive treatment of the content of PORT 340. Not open to students who have taken PORT 340. Prerequisite: Consent of instructor. LEC
- PORT 547 Brazilian Studies:** _____ (3). H A more intensive treatment of the content of PORT 347. Not open to students who have taken PORT 347. Prerequisite: PORT 216 or consent of instructor. LEC
- PORT 548 Portuguese Language and Brazilian Culture for Business** (3). H A more intensive treatment of the content of PORT 348. Not open to students who have taken PORT 348. Prerequisite: Consent of instructor. LEC
- PORT 560 Survey of Portuguese Literature** (3). H/W Emphasis on Gil Vicente, Camões, Eça de Queiroz, and Fernando Pessoa. Prerequisite: A fourth semester course in Portuguese or consent of instructor. LEC
- PORT 565 Studies in Brazilian Film:** _____ (3). H A more intensive treatment of the content of PORT 365. Not open to students who have taken PORT 365. Prerequisite: Consent of instructor. LEC
- PORT 611 Accelerated Basic Portuguese for Spanish Speakers** (3). U Contrastive phonological and morphological analysis of standard Spanish and the major dialect of Brazilian Portuguese, followed by a presentation of major grammatical and phonological stumbling blocks for Spanish speakers. Drills on grammar, syntax, and pronunciation emphasize those areas in which Brazilian Portuguese differs most significantly from Spanish. Prerequisite: Graduate student status in Spanish. Undergraduates in Spanish may be admitted with consent of instructor. LEC
- PORT 612 Accelerated Basic Portuguese for Spanish Speakers II** (3). U A continuation of PORT 611, with special emphasis on reading and writing skills. Prerequisite: PORT 611. LEC
- PORT 740 Survey of Brazilian Literature** (3).
- PORT 742 The Brazilian Novel** (3).
- PORT 746 The Brazilian Short Story** (3).
- PORT 750 Brazilian Poetry** (3).
- PORT 760 Contemporary Brazilian Literature** (3).
- PORT 780 Special Readings in Portuguese and Brazilian Literature** (1-3).
- PORT 785 Special Topics in Brazilian Cultural and Literary Studies:** _____ (3).

● Spanish Courses

- SPAN 100 Spanish Reading Course** (3). U A special course for candidates for advanced degrees designed to aid them in obtaining a reading knowledge of Spanish. Intensive study of the fundamentals of grammar, proceeding to the reading of material of medium difficulty. Open to graduate students and to seniors who are applying for entrance to a graduate school. The course does not satisfy any part of the undergraduate language requirement. This course is primarily for graduate students who are fulfilling their language requirement(s) for advanced degrees. LEC
- SPAN 103 Elementary Spanish Conversation I** (1). U One credit-hour, two recitations weekly. The course consists of exercises to increase fluency in elementary conversation. Does not fulfill any portion of the College of Liberal Arts and Sciences' foreign language requirement. Prerequisite: Concurrent enrollment in SPAN 104 or SPAN 105. LEC
- SPAN 104 Elementary Spanish I** (5). U For beginning students of Spanish. Not open to students who have had any previous study of Spanish. Active preparation and participation required. Classes conducted in Spanish. Not open to native speakers of Spanish. LEC
- SPAN 105 Elementary Spanish I, Accelerated** (3). U Three hours of class per week; one hour lecture plus two hours of language practice. Designed to enable students who have had up to 2 years of recent high school Spanish or who speak another Romance language to reach the same level of proficiency as those completing SPAN 104. See SPAN 104 for course description. Active preparation and participation required in language practice classes, which are conducted in Spanish. Not open to native speakers of Spanish or previous study of another Romance language. See departmental placement guidelines. LEC
- SPAN 107 Elementary Spanish Conversation II** (1). U Continuation of Elementary Spanish Conversation I (SPAN 103). One credit-hour, two recitations weekly. The course consists of exercises to increase fluency in elementary conversation. Does not fulfill any portion of the College of Liberal Arts and Sciences foreign language requirement. Prerequisite: Concurrent enrollment in SPAN 108 or SPAN 109 or SPAN 111. LEC
- SPAN 108 Elementary Spanish II** (5). U Only for students who have completed SPAN 104 at the University of Kansas. This course prepares students for Intermediate level study of Spanish. Active preparation and participation required. Classes conducted in Spanish. Not open to native speakers of Spanish. Prerequisite: SPAN 104. LEC
- SPAN 109 Honors Elementary Spanish II** (3). U Three hours of class per week. Continuation of SPAN 104/105. Class conducted in Spanish. Active preparation and participation required. Not open to native speakers of Spanish. Prerequisite: SPAN 104 or SPAN 105 with grade of A. LEC
- SPAN 111 Intensive Elementary Spanish** (5). U For students who have had some previous study of Spanish, but who do not place into the Intermediate level. This course prepares students for Intermediate level study of Spanish. Active preparation and participation required. Classes

- conducted in Spanish. Not open to native speakers of Spanish. Prerequisite: At least one previous high school or college course in Spanish. LEC
- SPAN 170 Hispanic Language and Civilization I** (1-3). U For students in their first year of language study or the equivalent. An intensive orientation to the culture of Spanish-speaking countries. Includes elements of grammar, conversation, and composition. Available only to first-semester study abroad participants. Will not count toward the Spanish major nor the language requirement. LEC
- SPAN 171 Hispanic Language and Civilization II** (1-3). U A continuation of SPAN 170. For students in their first year of language study or the equivalent. An intensive orientation to the culture of Spanish-speaking countries. Includes elements of grammar, conversation, and composition. Available only to first-semester study abroad participants. Will not count toward the Spanish major nor the language requirement. LEC
- SPAN 212 Intermediate Spanish I** (3). U A review and continuation of grammar study, with particular attention to speaking, reading, and writing practice. Not open to native speakers of Spanish. Prerequisite: SPAN 108 or SPAN 109 or SPAN 111 or placement. See departmental placement guidelines. LEC
- SPAN 213 Honors Intermediate Spanish I** (3). U Not open to native speakers of Spanish. Prerequisite: SPAN 108 or SPAN 109 with a grade of A or B, or permission of department. LEC
- SPAN 216 Intermediate Spanish II** (3). U A continuation of SPAN 212. Not open to native speakers of Spanish. Prerequisite: SPAN 212 or placement. LEC
- SPAN 217 Honors Intermediate Spanish II** (3). U Not open to native speakers of Spanish. Prerequisite: SPAN 212 or SPAN 213 with a grade of A or B, or permission of department. LEC
- SPAN 220 Intensive Intermediate Spanish** (6). U Five hours of class and an additional hour in the language laboratory. This course is designed for students who would like to acquire proficiency in Spanish more rapidly. The material covered is the same as in SPAN 212 and SPAN 216. Not open to native speakers of Spanish. Prerequisite: SPAN 108 or SPAN 109, with a grade of A or B. LEC
- SPAN 222 Intensive Elementary and Intermediate Spanish** (11). U Equivalent to SPAN 108, SPAN 212, and SPAN 216 in one semester. Prerequisite: SPAN 104 or SPAN 105 with a grade of A or B, or equivalent. LEC
- SPAN 270 Hispanic Language and Civilization I** (1-3). U For students in their second year of language study or the equivalent. An intensive orientation to the culture of Spanish-speaking countries. Includes elements of grammar, conversation, and composition. Available only to first-semester study abroad participants. Will not count toward the Spanish major nor the language requirement. LEC
- SPAN 271 Hispanic Language and Civilization II** (1-3). U A continuation of SPAN 270. For students in their second year of language study or the equivalent. An intensive orientation to the culture of Spanish-speaking countries. Includes elements of grammar, conversation, and composition. Available only to first-semester study abroad participants. Will not count toward the Spanish major nor the language requirement. LEC
- SPAN 300 The Origins and Development of Spanish-American Culture** (3). HL H The development of social and cultural patterns in Spanish America, and their relationship to economic issues and personal values. A topical study of the historical development of Spanish-American institutions will be followed by an examination of twentieth-century cultural patterns. Special emphasis on Mexico. Most of the readings will be in English. Will not count toward the Spanish major. Prerequisite: SPAN 108, or SPAN 109, or SPAN 111, or two years of high school Spanish. LEC
- SPAN 323 Spanish Grammar and Composition for the Professions** (3). U Systematic grammar review and intensive study of vocabulary and stylistics for formal written communication in the professions. Designed for non-majors. Prerequisite: SPAN 216, or SPAN 217, or SPAN 220, or an equivalent course. LEC
- SPAN 324 Grammar and Composition** (3). U Systematic grammar review and development of essential writing skills for advanced courses in Spanish. Concurrent enrollment in SPAN 328 required. Recommended for students with a grade of B or better in SPAN 216, SPAN 217, or SPAN 220. Prerequisite: SPAN 216, or SPAN 217, or SPAN 220, or consent of instructor. LEC
- SPAN 328 Intermediate Spanish Conversation I** (1). U Two class meetings per week. Conversational reinforcement of grammar and vocabulary covered in SPAN 324. Concurrent enrollment in SPAN 324 recommended. Not open to native speakers of Spanish. Prerequisite: Grade of B or better in SPAN 216, or SPAN 217, or SPAN 220, or consent of instructor. LEC
- SPAN 329 Intermediate Spanish Conversation II** (1). U Two class meetings per week. Continuation of SPAN 328. Not open to native speakers of Spanish. Prerequisite: SPAN 328 or consent of instructor. LEC
- SPAN 340 Textual Analysis and Critical Reading** (3). HL H/W Critical readings and interpretation of Hispanic literatures, with emphasis on acquiring the skills and vocabulary necessary for discussing and writing literary analyses. Prerequisite: SPAN 323 or SPAN 324 with a grade of B or better, or consent of instructor. LEC
- SPAN 370 Hispanic Language and Civilization I** (1-3). U An intensive orientation to the culture of Spanish-speaking countries. Also includes

elements of grammar, conversation, and composition. Available only to study-abroad participants. Will not count toward the Spanish major. LEC

SPAN 371 Hispanic Language and Civilization II (1-3). U An intensive orientation to the culture of Spanish-speaking countries. Also includes elements of grammar, conversation, and composition. Available only to second-semester study abroad participants. Will not count toward the Spanish major. LEC

SPAN 390 Interpretation of Literature (3). H A study of selected works in literary theory and of selected problems in literary interpretation and comparative literature methodology, designed to examine and apply systematically basic critical principles and approaches. Discussion of these approaches will be related to the previous study of literature and deepened through individual papers written by participants and presented to the group. Will not count toward the major in Spanish. (Same as ENGL 308, GERM 560, HWC 390, and SLAV 394.) Prerequisite: Completion of one junior-senior course in a language and literature department. LEC

SPAN 424 Advanced Spanish Composition and Grammar (3). H/W Extensive practice in writing, with attention to vocabulary, grammar usage, and discourse structure. Thorough review of syntax and grammar. Conducted in Spanish. Concurrent enrollment in SPAN 428 required, except for native speakers or for students with credit for SPAN 428 from a study abroad program. Prerequisite: SPAN 340 with a grade of B or better or consent of instructor. LEC

SPAN 428 Advanced Spanish Conversation (1). U Extensive practice in speaking and listening, with attention to appropriate language and discourse structure. Two class meetings per week. Conversational reinforcement of grammar and vocabulary covered in SPAN 424. Not open to native speakers of Spanish. Concurrent enrollment in SPAN 424 recommended. Prerequisite: SPAN 324 and SPAN 340 or equivalents, or consent of instructor. LEC

SPAN 429 Spanish Phonetics (3). H/W An analytical and practical study of contemporary Spanish phonetics. Prerequisite: SPAN 424 and SPAN 428, or consent of instructor. LEC

SPAN 440 Hispanic Studies: ____ (3). H/W A topics course dedicated to the study of special historical moments, topics, authors, or themes in literary and cultural history. Readings may include selections from both Spain and the countries of Spanish America. The course may cover multiple genres, authors, periods, or regions. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 323 or SPAN 324; SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 446 Spanish Culture (3). H/W A study of the development of Spanish culture with particular emphasis on history, customs and traditions, and literary trends and artistic tendencies that constitute Spain's specific contribution to Western civilization. Conducted in Spanish. Prerequisite: SPAN 323 or SPAN 324; SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 447 Latin American Cultures: ____ (3). H/W The description and interpretation of Latin American cultures, with particular attention to history, ethnology, folklore, and the arts. The course may focus on particular countries or geographical areas. Conducted in Spanish. May be repeated for credit as topic varies. Prerequisite: SPAN 323 or SPAN 324, SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 448 Spanish Language and Culture for Business (3). H Cultural studies approach to contemporary Spanish American societies for students with an interest in business. Explores how individuals from Spanish American countries negotiate their place in a new cultural context, and how different groups in Spanish America perceive business (negocios). Readings include selections from literature, history, journalism, social analysis, and popular culture. Exercises help non-native speakers develop analytical skills as well as vocabulary and communication skills related to international business and professional life. Conducted in Spanish. Prerequisite: SPAN 323 or SPAN 324, or consent of instructor. LEC

SPAN 450 Medieval Spanish Studies: ____ (3). H Reading and analysis of Spanish literature and culture to 1500. The course may cover multiple genres, authors, periods, regions, or topics. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 323 or SPAN 324; SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 451 Early Modern Spanish Studies: ____ (3). H Reading and analysis of Spanish literature and culture from 1500 to 1800. The course may cover multiple genres, authors, periods, regions, or topics. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 323 or SPAN 324; SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 452 Nineteenth-century Spanish Studies: ____ (3). H Reading and analysis of the literature and culture of Spain of the 1800s. The course may cover multiple genres, authors, periods, regions, or topics. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 323 or SPAN 324; SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 453 Twentieth-century Spanish Studies: ____ (3). H Reading and analysis of the literature and culture of Spain from 1900 to the

present. The course may cover multiple genres, authors, periods, regions, or topics. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 323 or SPAN 324; SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 460 Colonial Spanish-American Studies: ____ (3). H Reading and analysis of Spanish-American literature and culture from the Conquest to Independence, organized by topic. The course may cover multiple genres, authors, periods, regions, or topics. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 323 or SPAN 324; SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 461 Nineteenth-century Spanish-American Studies: ____ (3). H Reading and analysis of Spanish-American literature and culture from Independence to 1900, organized by topic. The course may cover multiple genres, authors, periods, regions, or topics. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 323 or SPAN 324; SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 462 Twentieth-century Spanish-American Studies: ____ (3). H Reading and analysis of Spanish-American literature and culture from 1900 to the present, organized by topic. The course may cover multiple genres, authors, periods, regions, or topics. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 323 or SPAN 324; SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 463 National Traditions in Spanish America: ____ (3). H Reading and analysis of Spanish-American literature and cultural history from the perspective of a selected nation or nations. The course explores the role of literature and cultural expression in constructing the modern nation and local traditions. Readings may cover selections from multiple genres, authors, and periods. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 323 or SPAN 324; SPAN 340 with a grade of B or better; or consent of instructor. LEC

SPAN 470 Studies in Spanish Culture and Civilization: ____ (3). H A study of Spanish culture with emphasis on one or more of the following aspects: history, politics, ethnology, anthropology, religious and secular traditions, issues of cultural identity, music, art, architecture, and popular culture. Available only to study-abroad participants. May be repeated for credit if content varies. LEC

SPAN 471 Studies in Spanish-American Culture and Civilization: ____ (3). H A study of Spanish-American national or regional culture with emphasis on one or more of the following aspects: history, politics, ethnology, anthropology, religious and secular traditions, issues of cultural identity, music, art, architecture, and popular culture. Available only to study-abroad participants. May be repeated for credit if content varies. LEC

SPAN 474 Studies in Spanish Literature: ____ (3). H A study of a particular author, group of authors, period, genre, region, or theme. Available only to study-abroad participants. May be repeated for credit if content varies. LEC

SPAN 475 Studies in Spanish-American Literature: ____ (3). H A study of the literature of a particular author, group of authors, period, genre, country, region, or theme. Available only to study-abroad participants. May be repeated for credit if content varies. LEC

SPAN 494 Special Readings in Spanish (1-3). H/W Directed reading in (a) fields not covered by student's course work, and/or (b) field of student's special interest approved by the department. Conferences. May be repeated for credit if content varies. Prerequisite: Twenty-five hours of Spanish. IND

SPAN 496 Honors in Spanish (3). H/W Honors seminar. May be repeated for credit. Required of all students working for a degree with honors in Spanish. IND

SPAN 500 Hispanic Literature in Translation: ____ (3). H A study of the literature in English translation of a particular author, period, genre, country, region, or theme. Discussion in English and frequent critical papers. May be repeated for credit as the topic varies. Will not count toward the Spanish major. Prerequisite: Completion of one junior-senior level literature course in any language. LEC

SPAN 520 Structure of Spanish (3). H/W A study of the Spanish language as it is spoken today, from perspectives of contemporary linguistics. Reading and analysis of recent publications in the field. Prerequisite: SPAN 424 and SPAN 428, or consent of the instructor. LEC

SPAN 522 Advanced Studies in Spanish Language: ____ (3). H/W Extensive language analysis and practice on one topic such as stylistics, translation, conversation/spoken discourse, or creative writing. Course conducted in Spanish and may be repeated for credit as the topic varies. Prerequisite: SPAN 424 and SPAN 428, or consent of the instructor. LEC

SPAN 540 Colloquium on Hispanic Studies: ____ (3). H An advanced course dedicated to the critical study of special historical moments, topics, authors or themes in literary and cultural history. This course is designed to provide sophistication, focus, and analytical depth in literary and cultural study through exploration of secondary sources as well as theoretical material. Reading may include selections from both Spain and the countries of Spanish America and may cover multiple genres, authors, periods, or regions. Course conducted in Spanish

KU's long-standing ties with Costa Rica, Brazil, Mexico, Haiti, and Paraguay bring a depth of experience and cultural exchange that enriches the university and its students.

KU is one of 17 public universities listed as "best buys" in higher education in the 2006 Fiske Guide to Colleges. The Fiske Guide defines a "best buy" as a school that "offers remarkable education opportunities at a relatively modest cost."

and may be repeated for credit as the topic varies. Prerequisite: SPAN 424 and six hours of 400-level Spanish literature courses. LEC

SPAN 550 Colloquium on Spanish Film (3). H A theoretical and historical exploration of Spanish cinema with particular attention devoted to the films of Berlanga, Buñuel, Gutiérrez Aragón, Saura, Erice, and Almodóvar. Students will be expected to attend film screenings in addition to regular class meetings. Prerequisite: SPAN 424 and six hours of 400-level Spanish courses. LEC

SPAN 560 Colloquium on Latin American Film (3). H An overview of Latin American cinema from its origins to the present with particular attention to thematic concerns, such as cultural and national identity, and of literary discourse. Students will be expected to attend film screenings in addition to regular class meetings. Prerequisite: SPAN 424 and six hours of 400-level Spanish courses. LEC

SPAN 566 Latin American Folklore (3). H An examination of Latin American folk traditions, the ways they are used to give meaning to life and to define local and national identity. Folk literature, songs, music, dance, foods, fiestas, and material culture are looked at in the light of current folklore theory. Lectures and discussion are in English, some readings may be in Spanish. Prerequisite: SPAN 424 and six hours of 400-level Spanish courses. LEC

SPAN 568 Spanish Ballads (3). H/W A study of the various types of ballads; traditional, artistic, and popular. Prerequisite: A survey of Spanish literature through the Golden Age. LEC

SPAN 570 Studies in Hispanic Linguistics: _____ (3). U Theoretical and applied analysis of one or more of the following components of the Spanish language: phonology/phonetics, morphology, syntax, semantics, pragmatics. Available only to study abroad participants. May be repeated for credit if content varies. Prerequisite: SPAN 424. LEC

SPAN 681 Language Teaching for Oral Proficiency (1). U A summer course designed principally for secondary school language teachers. Provides an orientation to proficiency-based models in foreign language instruction, national standards in the rating of foreign language proficiency, and curriculum development sessions which address issues of articulation in foreign language curricula. (Not applicable toward a major or graduate degree in Spanish.) (Same as FREN 681 and GERM 681.) LEC

SPAN 717 History of the Spanish Language (3).

SPAN 720 Syntax and Composition (3).

SPAN 722 Special Topics in Spanish Literature: _____ (2-3).

SPAN 730 Literature of Thirteenth- and Fourteenth-century Spain (3).

SPAN 733 Print Culture in Early Modern Spain (3).

SPAN 735 Poetry and Sentimental Romance in Fifteenth-century Castile (3).

SPAN 739 Spanish Drama of the Golden Age (3).

SPAN 740 Lope de Vega and His School (3).

SPAN 741 Calderon and His School (3).

SPAN 742 The Spanish Novel in the Renaissance and Golden Age (3).

SPAN 744 Spanish Lyric Poetry of the Golden Age (3).

SPAN 745 Don Quixote (3).

SPAN 747 The Spanish Theatre before Lope de Vega (3).

SPAN 752 Spanish Literature of the Eighteenth Century (3).

SPAN 754 Romanticism (3).

SPAN 755 Nineteenth-century Spanish Novel (3).

SPAN 760 Nineteenth-century Spanish Drama (3).

SPAN 761 Twentieth-century Spanish Drama (3).

SPAN 762 The Spanish Novel Since the Civil War (3).

SPAN 764 Modern Spanish Poetry (3).

SPAN 765 Contemporary Spanish Poetry (3).

SPAN 766 The Spanish Modernist Novel (3).

SPAN 770 Spanish-American Drama (3).

SPAN 771 Spanish-American Literature: _____ (3).

SPAN 772 The Modern Spanish-American Novel, 1900-1950 (3).

SPAN 773 The Modern Spanish-American Novel Since 1950 (3).

SPAN 774 Spanish-American Poetry (3).

SPAN 776 Spanish-American Short Story (3).

SPAN 781 Spanish-American Colonial Studies (3).

SPAN 782 Spanish-American Prose Fiction: _____ (3).

SPAN 784 Spanish-American Modernism (3).

SPAN 785 Special Topics in Spanish-American Literature: _____ (2-3).

SPAN 790 Spanish Linguistics: Theory and Application to Teaching (3).

SPAN 792 The Picaresque Novel (3).

SPAN 795 Literary Theory and Criticism (3).

Speech-Language-Hearing: Sciences and Disorders

Chair: Hugh W. Catts, catts@ku.edu

Dole Center, 1000 Sunnyside Ave., Room 3001

Lawrence, KS 66045-7555

(785) 864-0630, www.ku.edu/~splh

Degrees offered: B.A. or B.G.S. in Speech-Language-Hearing, M.A. in Audiology or Speech-Language Pathology, Au.D. in Audiology, Ph.D. in Audiology or Speech-Language Pathology.

Basic study in speech, language, and hearing is provided through B.A. and B.G.S. programs. Programs are designed for the student who seeks a career in speech, language, or hearing or is interested in normal communication development and communication disorders. Graduate study at KU is offered through the Intercampus Program in Communicative Disorders with classes, research, and clinical work in Lawrence and at the KU Medical Center in Kansas City.

Majors

First- and Second-year Preparation. Both the B.A. and the B.G.S. aspirant should fulfill the College general education requirements. Students also should complete SPLH 120, SPLH 261, SPLH 466, and elective courses in human physiology, psychology, and linguistics during their first two years. Faculty members can help students select appropriate course work.

Requirements for the B.A. or B.G.S. Major. A minimum of 34 hours in SPLH courses is required. Consult the department for current information. Required courses are

SPLH 120 The Physics of Speech	4
SPLH 261 Survey of Communication Disorders	3
SPLH 320 Introduction to the Neuroscience of Human Communication ..	2
SPLH 465 Fundamentals of Clinical Phonetics	1
SPLH 466 Language Science	1
SPLH 565 Language Sample Analysis Laboratory	3
SPLH 566 Language Development	3
SPLH 660 Research Methods in Speech-Language-Hearing	3
SPLH 662 Principles of Speech Science	3
SPLH 663 Principles of Hearing Science	3
SPLH 668 Introduction to Audiological Assessment and Rehabilitation ...	4
SPLH 671 Introduction to Speech-Language Pathology	4

An introductory statistics course (PSYC 300, MATH 365) is recommended.

After completing the requirements, students with grade-point averages of 3.0 or higher may enroll in SPLH 670, SPLH 672, or AUD 550.

Requirements for the Minor. Students must take SPLH 261 plus 15 hours of SPLH courses. Twelve of the 15 hours should be at the junior/senior level and exclude clinical courses (e.g., SPLH 668, SPLH 670, SPLH 671, and SPLH 672). Courses with clinical content can be taken as directed study with the permission and support of a faculty mentor. Electives for the minor include the following:

SPLH 120 The Physics of Speech (4)
SPLH 320 Introduction to the Neuroscience of Human Communication (2)
SPLH 464 Undergraduate Seminar in: _____ (3)
SPLH 465 Fundamentals of Clinical Phonetics (1)
SPLH 466 Language Science (3)
SPLH 499 Directed Study in Speech-Language-Hearing (1-3)
SPLH 565 Language Sample Analysis Laboratory (1)
SPLH 566 Language Development (3)
SPLH 660 Research Methods in Speech-Language-Hearing (3)
SPLH 662 Principles of Speech Science (3)
SPLH 663 Principles of Hearing Science (3)

Honors. The honors program offers exceptional students the opportunity to work closely with individual

faculty members on scholarly projects over an extended period of time. Confer with the honors coordinator. The following are required:

1. A grade-point average at the time of declaration and at graduation of at least 3.25 overall and of 3.5 in the major.

2. Completion of 6 to 8 credit hours in SPLH 498 Honors Seminar. Students work under the direction of a faculty member. Students may change areas of interest or faculty supervisors at the beginning of a semester with the consent of the honors coordinator. Students also must attend a monthly Honors Seminar meeting. Academic credit but no honors designation is given to students who meet the requirements for any semester but do not complete the requirements for departmental honors.

Career Preparation

Most states have laws mandating that speech-language pathologists and audiologists be licensed to practice their profession. The minimum requirement for licensure in most of these states is a master's degree.

● Speech-Language-Hearing: Sciences and Disorders Courses

For Audiology, see the School of Allied Health chapter of this catalog.

SPLH 120 The Physics of Speech (4). N An introduction to the acoustic structure of speech intended for nonscience majors. Emphasis will be placed on the methods and standards by which scientists measure and evaluate the physical characteristics of speech. Topics will include: simple harmonic motion, the propagation of sound waves, aerodynamic aspects of vocal fold vibration, resonance, digital speech processing, frequency analysis, and speech synthesis. Three class hours and one laboratory per week. (Same as LING 120.) Prerequisite: MATH 101 or 104 or equivalent. LEC

SPLH 261 Survey of Communication Disorders (3). SI S Provides a general understanding of normal and deviant speech, language, and hearing in adults and children. This course considers the normal development of communication behavior, the nature of communication disorders, and the interaction of speech pathology and audiology with allied fields (e.g., education, medicine, psychology, special education). LEC

SPLH 320 Introduction to the Neuroscience of Human Communication (2). U The neural bases of human communication are introduced. Basic neuroanatomy and neurophysiology are discussed, with particular emphasis on how they relate to the study of speech, language, and hearing. Methodologies used to investigate the functional neuroanatomy of human communication are also introduced. LEC

SPLH 418 Introduction to Cognitive Science (3). S Examines the data and methodologies of the disciplines that comprise Cognitive Science, an inter-disciplinary approach to studying the mind and brain. Topics may include: consciousness, artificial intelligence, linguistics, education and instruction, neural networks, philosophy, psychology, anthropology, evolutionary theory, cognitive neuroscience, human-computer interaction, and robotics. (Same as LING 418, PHIL 418, and PSYC 418.) Prerequisite: Consent of instructor. LEC

SPLH 432 Human Behavioral Genetics (3). S A survey of human behavioral genetics for upper division undergraduates. Emphasis is on how the methods and theories of quantitative, population, medical, and molecular genetics can be applied to individual and group differences in humans. Both normal and abnormal behaviors are covered, including intelligence, mental retardation, language and language disorders, communication, learning, personality, and psychopathology. (Same as ANTH 447, BIOL 432, PSYC 432.) Prerequisite: Introductory courses in biology/genetics or biological anthropology and psychology are recommended. LEC

SPLH 449 Laboratory/Field Work in Human Biology (1-3). N Faculty supervised laboratory or field research for Human Biology majors. Students design and complete a research project in collaboration with a Human Biology faculty member. (Same as ANTH 449, BIOL 449, and PSYC 449.) Prerequisite: Consent of instructor and Human Biology major. FLD

SPLH 464 Undergraduate Seminar in: _____ (1-3). S Course organized any given semester to study particular subject matter or to take advantage of special competence by an individual faculty member. Topics change as needs and resources develop. Class discussion, readings, and individual projects. (Distribution credit given for two-three hours only.) LEC

SPLH 465 Fundamentals of Clinical Phonetics (1). S Introduction to classification of American English speech sounds based on articulatory phonetics. Practice in phonetic transcription and analysis of normal and abnormal speech. Laboratory exercises to give students hands-on experience with selected topics from lecture. Prerequisite or Corequisite: SPLH 120. LEC

SPLH 466 Language Science (3). S Introduction to structure/function of human languages as it relates to language development and disorders; processes involved in the expression and reception of language and the methodologies employed to study these processes. LEC

SPLH 498 Honors Seminar (2-8). S (Eight hours maximum credit, which may be distributed through four semesters. No student may enroll for less than two hours credit.) Study may be directed toward either reading for integration of knowledge and insight in Speech-Language-Hearing: Sciences and Disorders, or original research, i.e., a specific problem in the field. Student must complete a written report at the end of each semester detailing the work on their project during the semester. Prerequisite: Consent of Departmental Honors Coordinator. IND

SPLH 499 Directed Study in Speech-Language-Hearing (1-3). S (A maximum of six hours of credit may be counted, with not more than four in a single area of study.) Investigation of a special topic or project selected by the student with advice, approval, and supervision of an instructor. Such study may take the form of directed reading or special research. Individual reports and conferences. (Distribution credit given for two-three hours only.) Prerequisite: Consent of instructor. IND

SPLH 565 Language Sample Analysis Laboratory (1). S The study of the analysis of language produced by children with respect to its phonological, lexical, morphological, syntactic, and pragmatic characteristics. Prerequisite or corequisite: SPLH 566. LAB

SPLH 566 Language Development (3). SI S Study of language acquisition in children, including phonologic, morphologic, syntactic, and semantic components. Methods of language measurement, the role of comprehension, and pragmatic aspects of language use are included. LEC

SPLH 660 Research Methods in Speech-Language-Hearing (3). An introduction to basic concepts of scientific methodology and of statistical and psychophysical measurement. Study of the application of these concepts to research in speech, language, and hearing. The complimentary nature of the research process and the clinical process will be emphasized. Graduate students who take this course must complete additional requirements. LEC

SPLH 662 Principles of Speech Science (3). N Survey of the physiology of speech production, and the physics of sound. Emphasis upon methodologies in the laboratory study of normal speech. Prerequisite: SPLH 120 and SPLH 320, or concurrent enrollment in SPLH 120 and SPLH 320, or consent of instructor. LEC

SPLH 663 Principles of Hearing Science (3). N Concepts and principles relevant to the normal hearing processes: gross anatomy, psychophysical methods, and basic subjective correlates of the auditory system. Prerequisite: SPLH 120, SPLH 320, or concurrent enrollment in SPLH 320, or consent of instructor. LEC

SPLH 668 Introduction to Audiological Assessment and Rehabilitation (4). U Introduction to methods for assessing and treating hearing disorders in adults and children, as well as conditions that result in hearing loss. Course includes clinical observation and extensive hands-on experience with clinical techniques. Prerequisite: SPLH 663. LEC

SPLH 670 Beginning Clinical Practice in Audiology (1-3). N Testing of hearing using pure tone air and bone conduction tests with both normal and hearing-impaired individuals. (Same as AUD 550.) Prerequisite: Completion of or concurrent enrollment in SPLH 669. FLD

SPLH 671 Introduction to Speech-Language Pathology (4). U This course provides training in clinical management of communicative disorders in children and adults. Principles of evaluation, application of diagnostic information, intervention planning, intervention process, data collection and application, report writing, and interactions with parents and other professionals are examined. Participation in observation and laboratory activities is required. LEC

SPLH 672 Clinical Practice in Speech-Language Pathology (3). S Clinical practice with children and adults. Group and individual conferences with staff required. Repeatable once for credit. Prerequisite: SPLH 671 and consent of instructor. FLD

SPLH 699 Principles of Speech Perception (3). S Concepts and principles relevant to the perception of speech with emphasis on the auditory system; acoustics, psychophysical methods, and basic subjective correlates of speech perception. Prerequisite: SPLH 662 and SPLH 663, or consent of instructor. LEC

SPLH 761 Aural Rehabilitation (3).

SPLH 764 Seminar in: _____ (1-3).

SPLH 784 Proseminar in Communication and Aging (1).

SPLH 799 Proseminar in Child Language (2).

Swahili

See African and African-American Studies.

Swedish

See Germanic Languages and Literatures.

Students interested in speech-language pathology and audiology should consult faculty members in the department during their first two years.

In 2005, more than 8,000 KU students received scholarships, awards, prizes, and loans through KU Endowment totaling more than \$24.7 million.

Systematics and Ecology

Students may concentrate in this area by seeking one of the degrees in Biological Sciences. See Biological Sciences.

Systems Analysis and Design

Robert Weaver, CLAS Associate Dean
Strong Hall, 1450 Jayhawk Blvd., Room 200
Lawrence, KS 66045-7535
(785) 864-3661

Courses are offered only on the KU Edwards Campus in Overland Park. They lead to a 15-hour certificate in systems analysis and design. The certificate offers working adults the opportunity to develop knowledge and skills to prepare for roles as systems analysts. A systems analyst analyzes, designs, and implements improvements in business processes through computer information systems so those systems are useful to planners and decision-makers who develop business strategy. For information, call the CLAS undergraduate adviser on the Edwards Campus at 864-8659 (from Lawrence) or (913) 897-8659 (outside of Lawrence).

● Systems Analysis and Design Courses

SA&D 401 Introduction to Systems Analysis and Design (3). U An introduction to the Systems Development Life Cycle (SDLC) and alternatives to SDLC uses in information studies projects and applications. Case studies will be used to illustrate methods of successful analysis of entire projects, including problem definition and analysis, design processes, testing, and implementation. Prerequisite: One year of programming experience or classes. Restricted to students admitted to the Systems Analysis and Design Certificate program. LEC

SA&D 402 Introduction to Project Management (3). U An introduction to the Project Management Body of Knowledge (PMBOK) including the need for project management, phases of the project life cycle, tools and techniques for planning (PERT, CPM), and the role of team work and communication. Restricted to students admitted to the Systems Analysis and Design Certificate program. LEC

SA&D 404 Software Development Methods (3). U This course will focus on the specifications through implementation phase of the Systems Development Life Cycle (SDLC) at an advanced level including technical design, coding and testing, problem management, systems testing, implementation and post-implementation. Prerequisite: SA&D 401. Restricted to students admitted to the Systems Analysis and Design Certificate program. LEC

SA&D 405 Object-oriented Analysis and Design (3). U Introduces the student to the basic Object Oriented (OO) terminology and how OO differs from a procedural approach. It details the deliverables that are created in the analysis and design phase using the Unified Modeling Language (UML). Students will also learn to use a CASE tool to document the analysis and design deliverables. Prerequisite: SA&D 401. Restricted to students admitted to the Systems Analysis and Design Certificate program. LEC

SA&D 406 Systems Architecture (3). U Survey of elements of systems architecture including types of architecture, quality attributes, design patterns and frameworks, deployment issues, and developing architecture plans. Prerequisite: SA&D 401. Restricted to students admitted to the Systems Analysis and Design Certificate program. LEC

Theatre and Film

Chair: Chuck Berg
Murphy Hall, 1530 Naismith Dr., Room 356
Lawrence, KS 66045-3102
(785) 864-3511, www.ku.edu/~kuthf

Degrees offered: B.A., B.G.S., M.A., Ph.D.

(B.F.A. degrees in theatre design and in theatre and voice and the M.F.A. with a scenography emphasis are offered cooperatively with the School of Fine Arts.)

Courses for Nonmajors

The department offers many courses open to nonmajors who wish to learn more about theatre, video, or

film, including TH&F 100, TH&F 105, TH&F 106, TH&F 283, TH&F 380, TH&F 381, TH&F 382, and TH&F 383. TH&F 100, TH&F 283, and TH&F 380 fulfill a College principal course requirement.

Majors

Undergraduates may choose from three emphases: Theatre, Theatre and Film Studies, or Film Studies. B.A. and the B.G.S. requirements are quite different, so it is important to check with a department adviser.

Theatre production experience is provided through course work in conjunction with the University Theatre, while film/video production experience is provided through course work in conjunction with media facilities at Oldfather Studios.

The B.A. emphasis in theatre acquaints students with the overall field of theatre and prepares them for graduate study in theatre.

The B.G.S. emphasis in theatre prepares students for professional work in theatre and for M.F.A. study in acting or directing.

The B.G.S. emphasis in theatre and film studies prepares students broadly in both theatre and film/video production.

The B.A. emphasis in film studies introduces students to the overall field of film studies and prepares them for graduate study.

The B.G.S. emphasis in film studies prepares students broadly in film/video production.

First- and Second-year Preparation. Students should contact a department adviser as early as possible.

Prospective majors should enroll in some TH&F courses during their first two years. It is especially important that students pursuing the B.G.S. degree begin fulfilling their requirements early.

Requirements for the B.A. with an Emphasis in Theatre. The following 40 hours are required:

TH&F 101 Theatre Practicum I	1
TH&F 106 Acting I	3
TH&F 111 Make-up	1
TH&F 201 Theatre Practicum II	1
TH&F 215 Approaching Design for Theatre and Film	3
TH&F 216 Scenic Production	2
TH&F 220 Costume Production	2
TH&F 224 Lighting Production	2
TH&F 308 Script Analysis	3
TH&F 401 Stage Management and Assistant Direction	1
TH&F 508 Fundamentals of Directing	3
TH&F 525 Theatre in Western Civilization to 1642	3
TH&F 526 Theatre in Western Civilization from 1642	3
Plus one of the following courses:	3
TH&F 283 Introduction to the Film Medium (3)	
TH&F 381 History of the Silent Film (3)	
TH&F 382 History of the American Sound Film (3)	
TH&F 383 History of the International Sound Film (3)	
Plus 9 additional hours elected from courses in the department	9

Requirements for the B.G.S. with an Emphasis in Theatre. The following 53 hours are required:

TH&F 101 Theatre Practicum I	1
TH&F 106 Acting I	3
TH&F 111 Make-up	1
TH&F 201 Theatre Practicum II	1
TH&F 206 Acting II	3
TH&F 212 Beginning Voice and Speech for Actors	3
TH&F 213 Movement I: The Acting Instrument	3
TH&F 215 Approaching Design for Theatre and Film	3
TH&F 216 Scenic Production	2
TH&F 220 Costume Production	2
TH&F 224 Lighting Production	2
TH&F 301 Theatre Practicum III	1
TH&F 308 Script Analysis	3
TH&F 312 Acting with an Accent	3
TH&F 313 Movement II: Physical Characterization	3
TH&F 401 Stage Management and Assistant Direction	1

TH&F 406 Audition Techniques	3
TH&F 508 Fundamentals of Directing	3
TH&F 525 Theatre in Western Civilization to 1642	3
TH&F 526 Theatre in Western Civilization from 1642	3
TH&F 609 Play Directing	3
Plus one of the following courses:	3
TH&F 283 Introduction to the Film Medium (3)	
TH&F 381 History of the Silent Film (3)	
TH&F 382 History of the American Sound Film (3)	
TH&F 383 History of the International Sound Film (3)	

Requirements for the B.G.S. with an Emphasis in Theatre and Film Studies. The following 49 hours are required:

TH&F 100 Introduction to the Theatre	3
TH&F 101 Theatre Practicum I	1
TH&F 106 Acting I	3
TH&F 201 Theatre Practicum II	1
TH&F 215 Approaching Design for Theatre and Film	3
TH&F 216 Scenic Production	2
TH&F 220 Costume Production	2
TH&F 224 Lighting Production	2
TH&F 283 Introduction to the Film Medium	3
TH&F 301 Theatre Practicum III	1
TH&F 308 Script Analysis	3
TH&F 375 Basic Video Production	3
TH&F 381 History of the Silent Film	3
TH&F 382 History of the American Sound Film	3
TH&F 383 History of the International Sound Film	3
TH&F 401 Stage Management and Assistant Direction	1
TH&F 508 Fundamentals of Directing	3
TH&F 525 Theatre in Western Civilization to 1642	3
TH&F 526 Theatre in Western Civilization from 1642	3
TH&F 584 Film Theory and Criticism, 1960-Present	3

Requirements for the B.A. with an Emphasis in Film Studies. The following 40 hours are required:

TH&F 283 Introduction to the Film Medium	3
TH&F 380 American Popular Culture of: _____ (decade)	3
TH&F 381 History of the Silent Film	3
TH&F 382 History of the American Sound Film	3
TH&F 383 History of the International Sound Film	3
TH&F 583 Film Theory	3
TH&F 584 Film Theory and Criticism, 1960-Present	3
TH&F 593 Experimental Film and Video	3
TH&F 684 Documentary Film and Video	3
Plus one of the following courses:	3
TH&F 100 Introduction to the Theatre (3)	
TH&F 525 Theatre in Western Civilization to 1642 (3)	
TH&F 526 Theatre in Western Civilization from 1642 (3)	
TH&F 528 History of American Theatre and Drama (3)	
Plus one of the following courses:	3
TH&F 375 Basic Video Production (3)	
TH&F 376 Basic Film Production (3)	
TH&F 576 Animation (3)	
Plus 7 additional hours elected from courses in the department	7

Requirements for the B.G.S. with an Emphasis in Film Studies. The following 58 hours are required:

TH&F 100 Introduction to the Theatre	3
TH&F 283 Introduction to the Film Medium	3
TH&F 380 American Popular Culture of: _____ (decade)	3
TH&F 381 History of the Silent Film	3
TH&F 382 History of the American Sound Film	3
TH&F 383 History of the International Sound Film	3
TH&F 583 Film Theory	3
TH&F 584 Film Theory and Criticism, 1960-Present	3
TH&F 593 Experimental Film and Video	3
TH&F 684 Documentary Film and Video	3
Plus one of the following courses:	3
TH&F 375 Basic Video Production (3)	
TH&F 376 Basic Film Production (3)	
TH&F 576 Animation (3)	
Plus 25 additional hours elected from courses in the department ..	25

Degree options and/or courses may be available on a limited basis. Students should consult a department adviser to be informed of changes.

Requirements for the Theatre Minor. A minimum of 18 hours is required for the minor; 12 hours must be numbered 300 and above.

Core (12 hours)	
TH&F 101 Theatre Practicum I	1
TH&F 106 Acting I (Nonmajors)	3

In addition to University Theatre productions, students have many opportunities to work on student-directed, independent, and community theatre and film-related projects.

KU's film and video program incorporates a balanced curriculum of film-media studies (history, theory, and criticism) and production.

KU student-produced films and videos win awards at top international, national, and regional festivals.

One course from the following:	2-3
TH&F 216 Scenic Production (2)	
TH&F 220 Costume Production (2)	
TH&F 224 Lighting Production (2)	
TH&F 525 Theatre in Western Civilization to 1642	3
TH&F 526 Theatre in Western Civilization from 1642	3

Electives (6 hours)

Two courses from the following:	6
TH&F 302 Undergraduate Seminar in _____ (3)	
TH&F 326 African Theatre and Drama (3)	
TH&F 327 African-American Theatre and Drama (3)	
TH&F 404 Children and Drama (3)	
TH&F 405 Children and Media (3)	
TH&F 527 Asian Theatre and Film (3)	
TH&F 528 History of American Theatre and Drama (3)	
TH&F 529 Race and the American Theatre (3)	
TH&F 603 Theatre for Young Audiences (3)	
TH&F 626 Myth and the Dramatist (3)	
TH&F 725 Russian Theatre and Drama from Stanislavski and Chekhov to the Present (3)	

Requirements for the Film Studies Minor. A minimum of 18 hours is required for the minor; 15 hours must be numbered 300 and above.

TH&F 283 Introduction to the Film Medium	3
TH&F 380 American Popular Culture of: _____ (decade)	3
One course from the following:	3
TH&F 381 History of the Silent Film (3)	
TH&F 382 History of the American Sound Film (3)	
TH&F 383 History of the International Sound Film (3)	
TH&F 384 History of African-American Images in Film (3)	
One course from the following:	3
TH&F 583 Film Theory (3)	
TH&F 584 Film Theory and Criticism, 1960-Present (3)	
One course from the following:	3
TH&F 593 Experimental Film and Video (3)	
TH&F 684 Documentary Film and Video (3)	
One course from the following:	3
TH&F 302 Undergraduate Seminar in (a film studies topic) (3)	
TH&F 585 Latin American Film (3)	
TH&F 686 American Film Criticism (3)	

Honors. A student interested in honors in theatre and film must present a written declaration of intention to the honors coordinator of the department as early as possible in the junior or senior year.

The following are required:

1. A grade-point average at time of declaration and at graduation of at least 3.25 overall and 3.5 in theatre and film courses.
2. A maximum of 6 hours in TH&F 498 Honors Seminar. Enrollment in this course must be approved by the honors coordinator. Students enrolled in the honors seminar work under the direction of one instructor for each semester. The instructor conducts an examination at the end of each semester's work and assigns a grade. Credit only is given to students who complete the work assigned for any semester but do not complete the requirements for honors. Students may change area of interest or instructor at the beginning of a semester with the consent of the honors coordinator.
3. Satisfactory performance in a final oral examination given approximately one month before graduation.

● Theatre and Film Courses

TH&F 100 Introduction to the Theatre (3). HL H Designed to help students by means of experience with theatre as well as study about it to achieve an understanding of its cultural role in contemporary society, to develop a sensitive and informed appreciation of its art, and to make it an integral part of their cultural lives. Lectures, discussion groups, special interest groups, theatre attendance. LEC

TH&F 101 Theatre Practicum I (1). U Involvement in theatre performance and/or production. One acting role in a University Theatre production or classroom project plus one crew assignment, or two crew assignments qualify for credit. May be repeated for credit. This course will be graded satisfactory/unsatisfactory. ACT

TH&F 105 Improvisation (3). U Designed to free the beginning actor physically, vocally, and emotionally. Beginning with basic physical action and sense memory exercises performed by individuals, the work will progress to pair and small-group improvisations in preparation for scene work. Open to freshmen and sophomores only. LEC

TH&F 106 Acting I (3). U Fundamental techniques in acting. Practice in character creation, body language, and effective stage speech. LEC

TH&F 111 Make-up (1). U The techniques in application of make-up for specific characterizations, both straight and character. Study of the structure of the face and hands for stage make-up. Should be taken concurrently with TH&F 106, if possible. LEC

TH&F 116 Scenographic Techniques (3). U Emphasis on drafting, model building, and presentational techniques for the theatrical designer or art director. Some work in computer drafting for the designer-technician. Lecture and laboratory periods. LEC

TH&F 201 Theatre Practicum II (1). U Involvement in theatre performance and/or production. One acting role in a University Theatre production or classroom project plus one crew assignment, or two crew assignments qualify for credit. May be repeated for credit. This course will be graded satisfactory/unsatisfactory. Prerequisite: TH&F 101. ACT

TH&F 204 Study Abroad Topics in: _____ (1-6). U This course is designed for the study of special topics in Theatre and Film at the freshman/sophomore level. Credit for course work must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

TH&F 206 Acting II (3). U The study of roles and scenes from plays. Practice in character analysis, creation of roles, rehearsal of scenes, and ensemble work. Prerequisite: TH&F 106. LEC

TH&F 209 Play Reading for Performance (3). H This course is designed to prepare students for upper-level courses in theatre by developing and enhancing their ability to read plays. Close reading of plays introduces students to a variety of different dramatic genres and theatrical styles. Emphasis is placed on comprehension and analysis of dramatic literature for theatrical performance. LEC

TH&F 212 Beginning Voice and Speech for Actors (3). H A foundation course; introduction to phonetics; training in Standard American Stage Speech; articulation skills; resonance and voice placement. LEC

TH&F 213 Movement I: The Acting Instrument (3). U A foundational course in discovering ease and efficient use of the body in a performance context, developing non-verbal communication and partnering skills, and establishing the connection of movement to voice production. Trains actors in proper warm-up technique, alignment and balance, physical safety, and basic tumbling skills. LEC

TH&F 214 Movement: Masks and Martial Arts (3). U The expressiveness of the body is explored and developed through the use of masks. This approach urges the body to move according to the expression on the mask. In addition, concentration and focus of energy, rhythm, direction, and effectiveness of movement are studied through the application of Japanese martial arts such as aikido and karate. (Same as DANC 214.) LEC

TH&F 215 Approaching Design for Theatre and Film (3). U Conceptualization and visualization of the elements involved in creative design for theatre, dance, television, and film. Intended for all film majors. LEC

TH&F 216 Scenic Production (2). U Introduction to the planning, construction, and mounting of scenery for theatre, television, and film. Concentration on the technical organization of scenic production. Lecture, discussion, and laboratory periods. LEC

TH&F 220 Costume Production (2). U Introduction to techniques of costume construction, including study of fabrics, color, fundamentals of pattern making, and draping of costumes for theatre, television, and film. Concentration on the technical organization of costume production. Lecture, discussion, and laboratory periods. LEC

TH&F 224 Lighting Production (2). U Introduction to the planning and execution of lighting for theatre, television, and film. Concentration on the technical equipment and organization of lighting production. Lecture, discussion, and laboratory periods. LEC

TH&F 226 Introduction to African Dance Theatre (2). NW U Introduction to the general techniques of non-verbal theatrical conventions in African cultures. Practical training in movement vocabulary supplemented by lectures on the "text" of performance. There will be an end of semester "studio performance." (Same as AAAS 334 and DANC 230.) LEC

TH&F 283 Introduction to the Film Medium (3). HL H Study of film as a visual art. Focus on communicative transaction between film viewer and film maker. Learning to read basic signs, syntaxes, and structures of cinematic language. Direct analysis of selected films. LEC

TH&F 301 Theatre Practicum III (1). U Involvement in theatre performance and/or production. One acting role in a University Theatre production or classroom project plus one crew assignment, or two crew assignments qualify for credit. May be repeated for credit. This course will be graded satisfactory/unsatisfactory. Prerequisite: TH&F 201. ACT

TH&F 302 Undergraduate Seminar in: _____ (3). H Course organized any given semester to study particular subject matter or to take advantage of special competence by an individual faculty member. Topics change as needs and resources develop. Class discussion, readings, and individual projects. LEC

TH&F 303 Summer Theatre (1-6). U Provides experience in a wide range of theatre activity related to the summer theatre production or productions. Work may include activity in the following areas: acting, directing, design, technical theatre, voice and/or movement. Specialized skills are developed through individual classes, production preparation and performance. Prerequisite: Consent of instructor. ACT

TH&F 304 Study Abroad Topics in: _____ (1-6). U This course is designed for the study of special topics in Theatre and Film at the junior/senior level. Credit for course work must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

TH&F 306 Acting III (3). U Advanced projects in acting. Character and scene analysis, scoring the role, rehearsal, and performance. Prerequisite: TH&F 206. LEC

TH&F 307 Undergraduate Theatre or Film Internship (1-3). U Supervised study with an approved theatre or film company or project. May be repeated for credit. No more than six hours may be applied to the B.A. or B.G.S. degrees. This course will be graded satisfactory/unsatisfactory. Prerequisite: Consent of instructor and at least seven hours credit in the department. FLD

TH&F 308 Script Analysis (3). H This course provides knowledges and methods enabling students to conduct in-depth study of dramatic scripts. Emphasis is given to the analysis skills appropriate to practitioners of stage and screen arts. Prerequisite: TH&F 106 and TH&F 215 or TH&F 216. LEC

TH&F 310 Acting for the Camera (3). H A study of acting techniques appropriate to the requirements of the camera. Emphasis is placed on developing audition skills necessary to compete for roles in dramatic features, corporate videos, and commercials. Actors acquire skills essential to the transition from stage to camera. Prerequisite: Permission of instructor. LEC

TH&F 312 Acting with an Accent (3). H A performance class for actors using monologues and scenes involving the use of accents and dialects. The course will also provide instruction in many of the most used American regional, British regional dialects, and foreign language accents. Prerequisite: TH&F 212, or by permission of instructor after the student demonstrates an ability in the International Phonetic Alphabet. LEC

TH&F 313 Movement II: Physical Characterization (3). U The study of diverse physical acting techniques, and an investigation into creating a character through manipulation of the acting instrument. Actor training in performance neutrality, mask work, age, and gender distinctions. Prerequisite: TH&F 213 and permission of instructor. LEC

TH&F 316 Beginning Scene Design for Theatre, Film, and Video (3). U Study of scenic design process with beginning problems in textual analysis, style, historical research, and preliminary and finished methods of design presentation. Concentration on developing fundamental design skills and awareness. Prerequisite: TH&F 116 and TH&F 215, or permission of instructor. LEC

TH&F 320 Beginning Costume for Theatre, Film, and Video (3). U Study of the costume design process with beginning problems in textual analysis, style, historical research, and preliminary and finished methods of design presentation. Concentration on developing fundamental design skills and awareness. Prerequisite: TH&F 215. LEC

TH&F 324 Beginning Lighting Design for Theatre, Film, and Video (3). U Study of the lighting design process with beginning problems in textual analysis, style, historical research, with preliminary and finished methods of design presentation. Concentration on developing fundamental design skills and awareness. Prerequisite: TH&F 116 and TH&F 215, or permission of instructor. LEC

TH&F 326 African Theatre and Drama (3). NW H/W A study of the origin and development of continental African theatre and its affinity of the Levant. Traditional, colonial and contemporary dramatic theories and experiments will be examined in play selections. (Same as AAAS 355.) LEC

TH&F 327 African-American Theatre and Drama (3). H A historical study of Black Theatre in the U.S.A. from its African genesis to its contemporary Americanness. Epochs in African-American dramaturgy will be critically examined. (Same as AAAS 356.) LEC

TH&F 373 Basic Screenwriting (3). U An introduction to the craft and principles of screenwriting, from inspiration to writing a complete first act. Emphasis on factors relevant to the creation of a treatment and a screenplay. Prerequisite: Consent of instructor. LEC

TH&F 375 Basic Video Production (3). U Theory and practice of video production with emphasis on preproduction planning, scripting, directing, lighting, camera operation and audio. Lecture-laboratory. Prerequisite: TH&F 283 and consent of instructor. LEC

TH&F 376 Basic Film Production (3). U An introduction to 16mm film techniques and structures, requiring construction of brief, individually produced fictive-narrative films employing classical continuity. Lecture-laboratory. Prerequisite: TH&F 283 and consent of instructor. LEC

TH&F 377 Basic Audio Production (3). U Introduction to the basic theories and production techniques involved in the construction of the audio image of film and video. Lecture-laboratory. Prerequisite: TH&F 283 and consent of instructor. LEC

TH&F 380 American Popular Culture of: _____ (3). HL H An interdisciplinary examination of popular cultural forms and their relationships with the social, political and economic dynamics of America in a specific decade, with emphasis on film, broadcasting, music, literature (including magazines and newspapers), theatre, and the graphic arts. Decade to be studied changes as needs and resources develop. May be repeated for credit for different decades. LEC

TH&F 381 History of the Silent Film (3). H A survey of the artistic, economic and sociological development of the narrative cinema with emphasis on the American studio system, German Expressionism, and Soviet Expressive Realism. Analysis of selected films. LEC

Courses in theatre history, theory, and drama complement learning through production and performance.

KU's film program is housed in Oldfather Studios, home to one of the largest film/media soundstages in the Midwest.

KU's film program is an institutional member of the Society for Cinema and Media Studies and the University Film and Video Association.

TH&F 382 History of the American Sound Film (3). H A study of the artistic, economic, and sociological development of the American sound film with emphasis on the studio system, major directors, genres, and the impact of television. Analysis of selected films. LEC

TH&F 383 History of the International Sound Film (3). H A survey of the artistic, economic, and sociological development of the international sound film with emphasis on the cinemas of France, Germany, Italy, England, Sweden, Eastern Europe, Japan, India, and South America. Analysis of selected films. LEC

TH&F 384 History of African-American Images in Film (3). H A history and critical assessment of the diverse images of African-Americans in American cinema and the impact of those images on American society. Screenings of feature and independent films, including those by African-Americans. LEC

TH&F 401 Stage Management and Assistant Direction (1). U Majors are assigned to stage manage or assistant direct a University Theatre production, or to take related workshops in stage management or assistant directing. May be repeated for credit. This course will be graded satisfactory/unsatisfactory. ACT

TH&F 404 Children and Drama (3). H Exploration of forms, methods, and materials appropriate for development of elementary-age children in dramatic arts. LEC

TH&F 405 Children and Media (3). U The applied study of child development theories and research methods on the influences and effects of television and related visual media on childhood in the contexts of families, schools, and society. (Same as HDFL 405.) LEC

TH&F 406 Audition Techniques (3). U This course prepares students for all types of audition experiences. It includes study in techniques of prepared auditions, cold readings, interviews, and the musical audition for actors. Emphasis is placed upon developing resumes and photo portfolios as well as concentrated study in professional contracts, unions, and agent acquisition. Prerequisite: TH&F 206. LEC

TH&F 410 Musical Performance for the Actor (3). This course develops the actor's musicianship, audition technique, sense of style, and deportment in the musical theatre genre. It includes a survey of the American Musical Theatre, its origins, development, and influences. LEC

TH&F 413 Stage Combat Skills (3). U Study of the illusion of violence in a dramatic context and the special skills necessary for creating believable and safe stage fights. Actor training in armed and unarmed combat, including one or more of the following: rapier and dagger, broadsword, and quarter staff. Prerequisite: TH&F 313 and permission of instructor. LEC

TH&F 416 Design Forum/Theatre, Film, and Video (3). U Depending on student qualifications and specialization, focus is on scenic, costume, and/or lighting design. Special attention placed on developing collaborative awareness and the conceptual and presentation skills that underlie and inform the design process. Prerequisite: TH&F 316 or TH&F 320 or TH&F 324. LEC

TH&F 429 Postcolonial Theatre and Drama (3). H The course develops an understanding of the postcolonial concept and its different manifestations in theatre and drama across nations and cultures. It approaches postcolonialism as a way of reading theatre, and as a genre within theatre by exploring how the 'colonial project' has reconfigured the concept, content, and context of theatre in both colonized and colonizing cultures. In addition to the study of postcolonial playwrights and their works, the course is also an introduction to postcolonial theory and its critics. LEC

TH&F 445 Teaching Theatre in the Middle/Secondary Schools (3). H Study of philosophy and methods appropriate to teaching improvisation, acting, stagecraft, directing, playwriting, dramatic literature, and theatre history in middle/secondary schools. Includes curriculum development, instructional and evaluative strategies, and management of co-curricular theatre programs. Prerequisite: T&L 320 Instructional Strategies and Models, or consent of instructor. LEC

TH&F 450 Race, Class, and Gender in Visual Culture (3). H Examines the way in which race, class, and gender are represented through visual culture, historically and in the present. The study of visual analyzes the way in which visual images communicate systems of beliefs, contribute to identity formation, and have an influence on our thinking about race, class, and gender. Course looks at visual objects, i.e., film, television, photography, art, advertisements, and theatre as well as visual practices, i.e., in public and private spaces. LEC

TH&F 473 Intermediate Screenwriting (3). U Emphasis on writing a full-length screenplay. Explores genre, character, dialogue, and the development of a personal writing style. Prerequisite: TH&F 373 and consent of instructor (students will be selected based on writing samples). LEC

TH&F 475 Intermediate Video Production (3). U Theory and practice of longer-form video production with emphasis on scripting, talent coordination and editing in preproduction, production and postproduction. Lecture-laboratory. Prerequisite: TH&F 375 and consent of instructor. LEC

TH&F 476 Intermediate Film Production (3). U The theory and practice of 16mm film production with an emphasis on sound recording and editing. Lecture-laboratory. Prerequisite: TH&F 376 and consent of instructor. LEC

TH&F 498 Honors Seminar (2-6). H Study may be directed toward either (a) reading for integration of knowledge and insight in theatre, film, or video, or (b) original research (i.e., investigation of a specific

problem in theatre, film, and/or video). Six hours maximum credit. Prerequisite: Consent of Departmental Honors Coordinator. LEC

TH&F 499 Directed Study in Theatre and Film (1-6). H Investigation of a special topic or project selected by the student with advice, approval, and supervision by an instructor. Such study may take the form of directed reading or special research. Individual reports and conferences. A maximum of six hours credit may be counted toward a degree. Prerequisite: At least seven hours credit in the department and consent of instructor. IND

TH&F 501 Colloquium on American Theatre/Film (1). U A series of fourteen weekly lecture/discussions led by invited guests both from the university and outside it on various topics central to the study of theatre and film. The first four meetings, led by the course coordinator, are a brief survey of the history of theatre and film in America and a preparation for the ten lecture/discussions to follow. LEC

TH&F 506 Psychology and the Actor (3). H The relationship of psychological theory and empirical data to the actor's craft. Topics include theatrical and psychodynamic motivation, social psychology of the actor, application of psychodynamics to character analysis, psychology of the act of acting, and personality of the actors. (Same as PSYC 506.) Prerequisite: PSYC 104 and TH&F 106 or permission of instructor. LEC

TH&F 508 Fundamentals of Directing (3). H Offered as a first course in play directing. Designed primarily for theatre majors and secondary (6-12) speech and theatre education majors in language arts with a theatre and drama concentration. The content is principally descriptive in nature with some practical experience. Lecture and laboratory periods. Prerequisite: TH&F 308. LEC

TH&F 512 A Vocal Approach to the Classics (3). H This is an advanced voice and speech course for actors aiming to further increase their command over tone, rhythm, pacing, and diction. Their range and power will be extended. Through discovery of the demands of a variety of classical texts, the actor will be challenged both in verse and in prose to develop the skills necessary to fully interpret that material. Prerequisite: TH&F 212. LEC

TH&F 516 Scenic Painting Techniques (3). H Study of painting equipment, tools, pigments, binders, and vehicles, and their relationship to the surfaces to be painted. Instruction in basic painting techniques. Prerequisite: TH&F 115 and TH&F 215. LEC

TH&F 517 Computer-aided Design for Theatre, Film, and Video (3). U Study of new media in theatre and film/video production, primarily computer technologies and methods for the theatrical designer or art director. Emphasis on computer 3-D modeling and color rendering. Prerequisite: TH&F 116, TH&F 215, or permission of instructor. LEC

TH&F 518 Scenography I (3). U Study of the techniques of design research and technical production. Exploration and solutions of simple scenographic problems. Prerequisite: Nine hours in theatre/design/technical courses. LEC

TH&F 519 Scenography II (3). U Continuation of TH&F 518. Prerequisite: TH&F 518. LEC

TH&F 520 History of Period Style I (3). H A survey of Western style from ancient Egypt to the Restoration. Focus is placed on developing a comprehensive understanding of the stylistic relationships between art, architecture, clothing, decor, manners, and social and political history. Prerequisite: Nine hours in theatre/design/technical courses or consent of instructor. LEC

TH&F 521 History of Period Style II (3). H Continuation of TH&F 520, from the Restoration to the present day. Prerequisite: Nine hours in theatre/design/technical courses or consent of instructor. LEC

TH&F 525 Theatre in Western Civilization to 1642 (3). H Study of the developments in theatre and drama in the Western world from the ancient Greeks to 1642. LEC

TH&F 526 Theatre in Western Civilization from 1642 (3). H Traces the major innovations and modifications in theatre and drama in the Western world from 1642 to the present day. Stresses the interlocking of the theatre, the play, and the audience. Prerequisite: TH&F 525 or permission of instructor. LEC

TH&F 527 Asian Theatre and Film (3). NW H/W A survey of traditional and modern theatre and film in Asia, with greatest attention given to India, China, and Japan. A study of plays, dramatic genres, history, conventions of play production, acting styles and films. (Same as EALC 527.) LEC

TH&F 528 History of American Theatre and Drama (3). H Problems of the live theatre viewed against the background of American culture from 1665 to the present. LEC

TH&F 529 Race and the American Theatre (3). U The representation(s) of race in significant texts and performance styles in American theatre analyzed according to political ideologies, dramatic movements and the impact of these factors on the representation of the "other" in the theatre. (Same as AAAS 585 and AMS 529.) LEC

TH&F 530 African Film and Video (3). NW H A critical study of Africa and its peoples as depicted in African films and videos. The aesthetic, cultural, economic, political, historical, and ideological aspects of African films and videos will be examined. (Same as AAAS 555.) LEC

TH&F 576 Animation (3). H A survey that combines animation history, theory, and production by examining works from various historical periods and exploring various styles and techniques with

16mm animation equipment. Lecture-laboratory. Prerequisite: TH&F 376 and consent of instructor. LEC

TH&F 583 Film Theory (3). H Comprehensive examination of most significant theories and theorists of film. Organized around specific questions, e.g., what qualities make film art unique, and how is film related to other visual and literary arts? Class discussion, individual projects. Prerequisite: TH&F 283 or equivalent (determined by instructor). LEC

TH&F 584 Film Theory and Criticism, 1960-Present (3). H A survey of major theories applied to film and video studies since 1960, and their impact on a range of filmmaking and video practices (fictive, documentary, experimental, and ethnographic). Includes theories generated from semiotic, cognitive, Marxist, feminist, postmodernist, and Third World Cinema approaches to film. LEC

TH&F 585 Latin American Film (3). H The course explores the national cinemas and film industries of various nations in Latin America, as well as films made by Indigenous and Chicano/a filmmakers. Films are analyzed both as artistic works (formal qualities, cinematic styles, and influences) and as documents that provide windows to the socio-historical context of the nation. The course focuses on the political-economic factors surrounding the production of Latin American national cinema (the role of the state, co-productions, film markets). Prerequisite: Junior status. May be taken as TH&F 885. There will be additional requirements for graduate students taking TH&F 885. LEC

TH&F 586 Asian Film (3). H Seminar on various national film cultures of East and Southeast Asia. Representative films are studied from formal, stylistic, and socio-historic perspectives. Addresses the impact of key cultural, economic, and political issues on each film industry. Class discussion, reports, and individual research papers. Prerequisite: Junior status. May be taken as TH&F 886, but with additional requirements. LEC

TH&F 587 Studies in Approaches to Classical Film (3). H Critical analysis of significant works in the history of cinema. LEC

TH&F 593 Experimental Film and Video (3). H A history of experimental film and video through an examination of major artists, movements, theories, and films/tapes. Prerequisite: TH&F 283 and TH&F 381, or consent of instructor. LEC

TH&F 599 Special Topics in Scenography (1-6). U Individual studio activity. Course content to be determined by the student under the supervision of a faculty member. May be repeated for credit in subsequent semesters. Prerequisite: Permission of instructor. LEC

TH&F 603 Theatre for Young Audiences (3). U A survey of theories, history, literature, criticism, production methods, and audience research about theatre performed by adults for children and adolescents. Emphasis is on child development and community outreach. Prerequisite: TH&F 309, or consent of instructor. LEC

TH&F 604 Drama with Young People (1-3). U A laboratory experience in developing and conducting improvisational drama workshops with children or adolescents in local schools. Includes readings by leading theorists and practitioners. Prerequisite: Actors cast in current KU Theatre for Young People production, or TH&F 404, or consent of instructor. LEC

TH&F 609 Play Directing (3). H Readings, lectures, and practice dealing with the relationship between actor and director with application to both stage and film. Prerequisite: TH&F 509. LEC

TH&F 617 Computer-aided Design for Theatre, Film, and Video II (3). U Continuation of TH&F 517. Emphasis on computer-generated images as scenic media in production situations. Prerequisite: TH&F 517, or permission of instructor. LEC

TH&F 618 Scenography III (3). U Advanced problems in scenography. Exploration of the problems confronted by the scenographer in arriving at a theatrically comprehensive, metaphorical statement for all visual and auditory dimensions of the play under his/her control: scenery, costumes, lighting, sound. Prerequisite: TH&F 519. LEC

TH&F 619 Scenography IV (3). U Continuation of TH&F 618. Prerequisite: TH&F 618. LEC

TH&F 626 Myth and the Dramatist (3). U This seminar critically explores myths in dramatic literature from ancient to contemporary times, using select authors from different cultures. Analysis of the works will be based on both conventional and post-structuralist theories and specific emphasis will be on myths that have been adapted cross-culturally and/or in different time perspectives. LEC

TH&F 675 Advanced Video Production (3). U Special projects in video production, using both studio and remote locations. Prerequisite: TH&F 475 and consent of instructor. LEC

TH&F 676 Advanced Film Production (3). U Special projects in 16mm sound film production, using both studio and remote locations. Prerequisite: TH&F 476 and consent of instructor. LEC

TH&F 677 Advanced Audio Production (3). U Special projects in audio production for film and video. Prerequisite: TH&F 377 and consent of instructor. LEC

TH&F 680 Film and Video Performance Techniques (3). H Theory and practice in advanced performance techniques in film and video. Prerequisite: Six credit hours in the department. LEC

TH&F 684 Documentary Film and Video (3). H An historical and theoretical survey of that major genre of film and video typically termed "documentary." The course will trace the main historical developments from documentary's beginnings through contemporary innovations. Prerequisite: TH&F 283 and TH&F 381, TH&F 382, or consent of instructor. LEC

TH&F 686 American Film Criticism (3). H An analysis of the evolution, methods and impact of American film criticism as practiced by such critics as James Agee, Robert Warshaw, Andrew Sarris, John Simon, Pauline Kael, Stanley Kauffman, and Dwight Macdonald. Prerequisite: TH&F 381 or TH&F 382. LEC

TH&F 702 Graduate Seminar in: _____ (3).

TH&F 703 Readings in Dramatic Literature (1-3).

TH&F 704 Study Abroad Topics in: _____ (1-6).

TH&F 707 Theatre or Film Internship (3-12).

TH&F 708 Dramatic Script Writing (3).

TH&F 709 Advanced Dramatic Script Writing (3).

TH&F 710 Styles of Acting: Classical Japanese (3).

TH&F 711 Styles of Acting: Shakespearean (3).

TH&F 713 Styles of Acting: Restoration and Eighteenth-century English (3).

TH&F 714 Study in Masks and Martial Arts (3).

TH&F 715 Problems and Techniques of Direction (3).

TH&F 719 M.F.A. Production Seminar (3).

TH&F 725 Russian Theatre and Drama from Stanislavski and Chekhov to the Present (3).

TH&F 773 Problems in Basic Screenwriting (3).

TH&F 775 Problems in Basic Video Production (3).

TH&F 776 Problems in Basic Film Production (3).

Ukrainian

See Slavic Languages and Literatures.

Uyghur

See East Asian Languages and Cultures.

Veterinary Medicine

See Premedical Professions in this chapter of the catalog.

Western Civilization

See Humanities and Western Civilization.

Wolof

See African and African-American Studies.

Women's Studies

Director: Ann E. Cudd
Bailey Hall, 1440 Jayhawk Blvd., Room 213
Lawrence, KS 66045-7574
(785) 864-4012, www.womensstudiesku.edu

Degrees offered: B.A., B.G.S., Graduate Certificate
Women's studies is an interdisciplinary program of courses with primary or significant emphasis on women. Courses are offered by the program or are cross-referenced with the program.

Majors

First- and Second-year Preparation. It is recommended that students complete WS 201, the introductory course, and consult the program director.

Requirements for the B.A. or B.G.S. Major

Six Core Courses (18 hours). The designation (INT) indicates courses with international content.
WS 201 Women's Studies: An Interdisciplinary Introduction 3
WS 601 Seminar in Women's Studies (to be taken in the spring of the senior year) 3

Three theatres provide unique performance spaces: the Crafton Preyer Theatre, a proscenium house seating 1,100; the more intimate William Inge Theatre, which seats 100; and a new theatre called Stage Too!, which seats 300.

"KU varsity teams—the only ones in the nation that carry the name Jayhawks—compete in the tough Big 12 Conference. The basketball team is legendary." —2006 Fiske Guide to Colleges

- One core social science course* 3
 WS 389/ANTH 389 The Anthropology of Gender: Female, Male, & Beyond (3) (INT)
 WS 468/PSYC 468 Psychology of Women (3) S
 WS 562/POLS 562 Women & Politics (3) S (INT)
 WS 653/POLS 653 Gender, War, & Peace (3) (INT)
 WS 660/ANTH 660 Human Reproduction: Culture, Power, & Politics (3) S (INT)
- One core humanities course* 3
 WS 310/AAAS 310 Women of Africa Today (3) (INT)
 WS 320/HIST 320 From Goddesses to Witches: Women in Pre-modern Europe (3) (INT)
 WS 321/HIST 321 From Mystics to Feminists: Women's History in Europe 1600 to the Present (3) (INT)
 WS 330/AAAS 340 Women in Contemporary African Literature (3) (INT)
 WS 510/AMS 510/HIST 530 History of American Women: Colonial Times to 1870 (3)
 WS 511/AMS 511/HIST 531 History of American Women: 1870 to Present (3)
- One theory course selected from the following:* 3
 WS 549/HIST 649 History of Feminist Theory (3)
 WS 560/AAAS 560 Race, Gender & Post-Colonial Discourses (3) (INT)
 WS 580/ANTH 580 Feminism & Anthropology
 WS 600/POLS 600 Contemporary Feminist Political Theory (3)
 SOC 601 Introduction to Feminist Social Theory (3)
 WS 381/PHIL 381 Feminism & Philosophy (3)
- One core course with international content* (any course designated INT above not already used) 3
- One Social Science Elective** (3 hours)
 Any Core Social Science not already used or any of the following: 3
 WS 333 The Politics of Physical Appearance (3)
 WS 520 Women & Violence (3)
 WS 580/ANTH 580 Feminism & Anthropology (3)
 WS 600/POLS 600 Contemporary Feminist Political Theory (3) (if not already used for theory requirement)
 WS 651/POLS 651 Women & Politics in Latin America (3) (INT)
 WS 665/ANTH 665/LAA 665 Women, Health, & Healing in Latin America (3)
 WS 789/ANTH 789 Anthropology of Gender: Advanced Seminar in the Four Fields (3)
 AAAS 315 Women & Islam (3)
 AAAS 388 The Black Woman (3)
 COMS 440 Communication & Gender (3)
 COMS 552 Rhetoric of Women's Rights (3)
 HP&M 620/SOC 617 Women & Health Care (3)
 PSYC 465 Stereotyping & Prejudice Across Cultures (3)
 SOC 273 Women in Society (3)
 SOC 352 Sociology of Sex Roles (3)
 SOC 780 Advanced Topics in Sociology: Women & Work (3)
- One Humanities Elective** (3 hours)
 Any Core Humanities not already used or any of the following: 3
 WS 512/AMS 512/HIST 532 History of Women & Work in Comparative Perspective (3)
 WS 513 Modern American Women in Film & Literature (3)
 WS 549/HIST 649 History of Feminist Theory (3)
 WS 560/AAAS 560 Race, Gender & Post-Colonial Discourses (3) (INT)
 WS 646/HIST 646 Witches in European History & Historiography (3)
 AAAS 434 African Women Writers (3)
 CLSX 315 Women in Ancient Art & Society (3)
 EALC 575 Love, Sexuality, & Gender in Japanese Literature (3)
 ENGL 572 Women & Literature: _____ (3)
 HIST 533 The History of Women & the Family in Europe, from 1500 to the Present (3)
 PHIL 381 Feminism & Philosophy (3)
 REL 477 Women & Religion (3)
 REL 672 Mother as Religious Metaphor (3)
 REL 677 Women in Christianity (3)
- Other Electives** (6 hours). The remaining 6 credit hours may be taken in any women's studies (WS numbered or cross-referenced) course. No more than 3 hours may be taken in any course, including the following:
 *WS 498 Independent Study (1-3)
 *WS 650 Service Learning in Women's Studies (3)
 *WS 797 Directed Readings (1-3)
 *WS 396 Studies in _____ (3)
 WS 498 Independent Study (3)
 WS 499 Honors in Women's Studies (3)
 *WS 696 Studies in _____ (3)
 *WS 701 Seminar in _____ (3)
- *Courses designated with an asterisk may be used as social sciences or humanities electives, by petition.
 Any of the following if relevant or by petition:
 ENGL 203 Topics in Literature of Love & Marriage (3)
 ENGL 203 Topics in Women's Writing & Autobiography (3)

- ENGL 203 Topics in Major Women Writers (3)
 ENGL 570 Topics in American Literature: _____ (3)
 HA 505 Special Study: Women/Modern Art (3)
 HIST 319 History, Women, & Diversity in the U.S. (3)
 HIST 606 Childhood & Youth in America (3)
 HIST 607 The Family in History: Comparative Perspectives (3)
 PSYC 502 Human Sexuality (3)
 REL 374 Religious Perspectives on Selfhood & Sexuality (3)
 SOC 220 Sociology of Families (3)
 SOC 628 Sociology of the Family (3)
 SOC 808 Feminist Theories (3)

All courses should be chosen in consultation with a women's studies adviser. In particular, students should ask an adviser about special topics courses offered by other departments that may count toward the major. Eighteen of the 30 hours required for the major must be in courses numbered 300 or above.

Courses cross-referenced with women's studies are published each semester in the *Timetable of Classes*.

Double Majors. A major in women's studies can be combined with a complementary second major in one of the humanities, social sciences, or natural sciences. Students in the professional schools also may integrate women's studies with their programs.

Requirements for the Minor. The minor requires 18 hours. At least 12 hours must be at the junior/senior (300 or higher) level.

- WS 201 Women's Studies: An Interdisciplinary Introduction 3
 One theory course selected from the list under Requirements for the Major above 3
 One core course selected from the social science or humanities lists under Requirements for the Major above 3
 One social science elective 3
 One humanities elective 3
 Other elective 3

Honors. Candidates must declare an intention to work for departmental honors to the women's studies honors coordinator no later than enrollment for the first semester of the senior year. Return the intent form to College Student Academic Services.

At the end of the final undergraduate semester, the candidate must have an overall grade-point average of at least 3.25 and a grade-point average of at least 3.5 in the major (i.e., the 30 hours of course work applied toward the women's studies major). Both overall and major grade-point averages include work done at other institutions as well as at KU. Each candidate must complete an independent research project, or its equivalent, related to women's studies.

1. The candidate must enroll in WS 499 Honors in Women's Studies or in Independent Study in women's studies or another department for two semesters, 3 hours per semester, and earn a grade of B or higher in the first semester and a grade of A in the second semester.

2. The candidate must submit a one-page proposal to the women's studies honors coordinator. This should describe the proposed honors project and state the names of at least three members of the College faculty, at least one of whom must be a member of the women's studies advisory board, who have agreed to evaluate the project. The candidate must obtain a written statement from the honors coordinator indicating that the project is relevant to women's studies.

3. The results of the candidate's project must be presented in written form, or in another form appropriate to the project, to a panel of at least three members of the College faculty, at least one of whom must be a member of the women's studies advisory board. This panel must certify the successful completion of the women's studies honors project.

4. If the candidate is earning a double major and is attempting to earn departmental honors in two different departments, one research project may be used to satisfy the requirements of both departments if the candidate obtains written approval from both. Both departments must be represented on the student's committee.

The program may petition to award graduation with departmental honors to deserving students who, for good reason, do not meet every requirement. Petitions should be sent to the College committee on undergraduate studies and advising. When the candidate finishes all the requirements for departmental

honors, the women's studies honors coordinator notifies College Student Academic Services in writing.

● Women's Studies Courses

WS 196 Study Abroad Topics in: _____ (1-6). S This course is designed for the study of special topics in Women's Studies. Coursework must be arranged through the Office of KU Study Abroad. May be repeated for credit if content varies. LEC

WS 201 Women's Studies: An Interdisciplinary Introduction (3). SC S An interdisciplinary introduction to the study of women. Topics may include gender ideologies and views of women, social roles, education, the family, economics, and politics. The major ideas and leaders of feminist movements and theories may also be considered. Topics will be approached from the perspective of both the social sciences and humanities and will include some comparison with non-Western and past cultures. LEC

WS 202 Women's Studies: An Interdisciplinary Introduction, Honors (3). SC S Similar to content to WS 201. An interdisciplinary introduction to the study of women and gender. Topics may include gender ideologies and views of women, social roles, education, the family, economics, and politics. The major ideas and leaders of feminist movements and theories may also be considered. Topics will be approached from the perspectives of both the social sciences and humanities and will include some comparison with non-western and past cultures. Open only to students in the Honors Program or by consent of the instructor. LEC

WS 310 Women of Africa Today (3). NW H An analysis of the position and status of the African woman today as she grapples with factors peculiar to her environment, history, and culture in a global perspective. The course will examine specific and relevant factors which impact on her current status in her society and how she compares with her older counterpart. Comparative study will be made of different African cultures. (Same as AAAS 310.) LEC

WS 320 From Goddesses to Witches: Women in Premodern Europe (3). HT H This course examines the social, cultural, and political contexts of women's spirituality and their relations to gender relations in Europe from about 30,000 B.C.E. to the 16th century Protestant Reformation. Lectures move both chronologically and topically, covering such subjects as goddess-worshiping cultures, women's roles in Christian and Jewish societies, symbols of women, and male attitudes toward women. Students will be able to participate in weekly discussions of primary and secondary source readings about women. (Same as HIST 320.) LEC

WS 321 From Mystics to Feminists: Women's History in Europe, 1600 to the Present (3). HT H This survey of women's history in Europe looks at changing patterns of women's economic roles and family structures in preindustrial and industrial society, the importance of women in religious life, cultural assumptions underlying gender roles, and the relationship of women to political movements, including the rise of feminism. (Same as HIST 321.) LEC

WS 324 History of Women and the Body (3). H This course examines different notions about women and their bodies from a historical perspective. It discusses the arguments and circumstances that have shaped women's lives in relation to their bodies, and women's responses to those arguments and circumstances. This course covers a wide geographical and chronological spectrum, from Ancient societies to the present, from Latin America and the Middle East, to North America and Western Europe. (Same as HIST 324.) LEC

WS 330 Women in Contemporary African Literature (3). NW H A critical study of issues and questions raised about women in contemporary African literature and implications for the larger society through the analysis of theme, language, characterization, roles and functions of women in selected works. (Same as AAAS 340.) LEC

WS 333 The Politics of Physical Appearance (3). S An interdisciplinary analysis of standards of physical attractiveness and cultural conceptions of women's bodies. Includes analysis of how these standards change across time and cultural groups, and of the impact of these standards on women as individuals and on social and political outcomes. LEC

WS 381 Feminism and Philosophy (3). H An examination of topics of philosophical interest that are important in the feminist movement such as the nature of sexism, the concept of sexual equality, the ethics of sexual behavior, the nature of love, feminist analyses of the value of marriage and family, the ethics of abortion and justifications for preferential treatment of women. (Same as PHIL 381.) LEC

WS 389 The Anthropology of Gender: Female, Male, and Beyond (3). NW S This course will introduce students to cultural constructions and performances of masculinity, femininity, and alternative genders across time and space. Topics and cases will be drawn from primarily non-Western cultures, ranging from Japanese markets to Pacific Rim gardens, and from Haitian voodoo to Maya royal politics. This course uses research by archeologists, linguists, biological anthropologists, and socio-cultural anthropologists. (Same as ANTH 389.) LEC

WS 396 Studies in: _____ (3). H The interdisciplinary study of selected and different aspects of women's studies in different semesters. LEC

WS 468 Psychology of Women (3). S A survey of the psychological theories about women; similarities and differences in the behavior of

women and men; the effects of biological and social factors on the behavior of women and men; and issues of concern to women of different races, sexual orientations, ages, and so forth. (Same as PSYC 468.) Prerequisite: PSYC 104 or WS 201. LEC

WS 498 Independent Study (1-3). S Intensive reading or research under faculty supervision culminating in the writing of a paper or research report. IND

WS 499 Honors in Women's Studies (3). S An individual research project under the direction of a specialist in the area of the student's interest. May be counted towards the total hours required for the major. Prerequisite: Majors only, with approval of the project adviser and the Women's Studies honors coordinator. IND

WS 510 History of American Women: Colonial Times to 1870 (3). H A survey of women's history in the United States, which will consider women's roles as housewives, mothers, consumers, workers, and citizens in pre-industrial, commercial and early industrial America. (Same as AMS 510 and HIST 530.) LEC

WS 511 History of American Women: 1870 to Present (3). H A survey of women's history in the United States, which includes radical and reform movements, the impact of war and depression, professionalization, immigration, women's work, and the biographies of leading figures in women's history. (Same as AMS 511 and HIST 531.) LEC

WS 512 History of Women and Work in Comparative Perspective (3). H This course explores the connection between historical changes in the labor process and the occupational choices available to women in different countries. Through discussion and analyses of texts, students will evaluate the construction of a gendered division of work as shaped over time by economic, cultural, and political forces. The chronological and geographical focus may vary depending on the instructor. (Same as AMS 512 and HIST 532.) LEC

WS 513 Modern American Women in Film and Literature (3). H Exploration of the images both real and ideal found in twentieth century popular culture. By using popular culture as social history, it examines the connections between these images and the life experiences of women in the family, at work, in war, and in economic depression. LEC

WS 520 Women and Violence (3). S This course will examine the relationship between women and violence, including rape, domestic violence, child sexual abuse, and sexual harassment. The nature, prevalence, causes, and consequences of violence against women will be discussed. LEC

WS 549 History of Feminist Theory (3). H This discussion course will cover the development of feminist theories from the late Middle Ages to the 1970s. Reading will include Pisan, Wollstonecraft, Mill, Freud, Woolf, Beauvoir, Friedan, Daly, Kristeva, and others. (Same as HIST 649.) LEC

WS 560 Race, Gender, and Post-Colonial Discourses (3). H An examination of the ways in which the concept of race, gender, and post-colonialism frame African literatures from the Caribbean, North America, and the continent itself. The course will focus on these discourses grounding them in critical frameworks within which they can be contextually analyzed and evaluated, at the same time examining their impact in literary praxis and theory. (Same as AAAS 560.) LEC

WS 562 Women and Politics (3). S This course exposes students to contemporary research on women and politics by surveying the sub-fields of political science. Topics include women's representation in the U.S., women and U.S. public policy, gender and legal theory, international women's movements, women and revolution, and women as political elites. We will examine the ways in which feminist theory and women's activism have challenged the narrow focus of the discipline as well as re-defined women's place in society. (Same as POLS 562.) Prerequisite: A 100-level POLS course or WS 201 or permission of instructor. LEC

WS 580 Feminism and Anthropology (3). S This seminar will introduce students to feminism in anthropology, including feminist theories, methodologies, ethnographic styles, and the history of women in the discipline since the late 1800s. Emphasis is on the social contexts for feminist theory-building since the 1960s and changing ideas about gender and power. (Same as ANTH 580.) Prerequisite: One of the following: ANTH 389, ANTH 460, WS 201; or permission of instructor. LEC

WS 600 Contemporary Feminist Political Theory (3). S A detailed introduction to feminist thought post-1960. Examines feminism in relation to the categories of political theory: liberal feminism, socialist feminism, radical feminism, and postmodern feminism. Within these categories and separately, we will also consider feminism as it is influenced by women traditionally excluded from mainstream feminist thought, namely U.S. women of color and women of post-colonial societies. (Same as POLS 600.) Prerequisite: WS 201 or a 100-level POLS course or permission of instructor. LEC

WS 601 Seminar in Women's Studies (3). S Investigation of a topic related to women from an interdisciplinary perspective. Open only to women's studies majors and required of them. Suggested for the senior year. LEC

WS 646 Witches in European History and Historiography (3). H This course examines witches, witchcraft, and magic in Europe in the late medieval and early modern period (approximately 1200-1700 C.E.). Particular emphasis will be on the variety of historical and anthropological approaches that have been used to study the subject

A major in women's studies can be combined with a complementary second major in the humanities or the social or natural sciences.

and their meaning in the context of gender politics and gender theory. (Same as HIST 646). LEC

WS 650 Service Learning in Women's Studies (3). S This course, to be taken in the senior year, is designed to give students the opportunity to apply women's studies knowledge and ideas gained through course work to real-life situations in various agencies and women's centers. Open to Women's Studies majors and others with significant Women's Studies backgrounds. Permission of instructor is required. FLD

WS 651 Women and Politics in Latin America (3). S This course examines the ways in which Latin American women have engaged in politics in the past two decades. Cases will draw from a variety of countries in Latin America. Students are expected to develop insights, through comparative analysis, into why women "do politics" in certain ways, the role of the State in women's politics, the (dis)advantages of various political strategies, and the ways in which political, economic, and social changes over time have affected women's political opportunities and interests. (Same as POLS 651.) Prerequisite: Six hours of course work in Political Science and/or Women's Studies and/or Latin American Studies. LEC

WS 653 Gender, War, and Peace (3). S This course explores ways in which militarization and warfare are gendered processes. We ask, what does war tell us about gender, and what does gender tell us about war? Though the majority of fighters are men, women are essential to war efforts. They also represent a high proportion of the casualties of war. Yet women are rarely examined in relation to war; thus we work to uncover women's experiences of war. We also look to women's contributions to the peace movement in terms of both theory and practice, asking: Is peace a feminist issue? Should feminists support women's access to combat positions or oppose the military? What if women ruled the world—would that end wars? Does militarized masculinity harm men more than benefit them? How do states mobilize citizens to war and how is the process gendered? (Same as POLS 653.) Prerequisite: One of the following: POLS 150, POLS 151, POLS 170, POLS 171, WS 201, WS 202. LEC

WS 660 Human Reproduction: Culture, Power, and Politics (3). S This seminar analyzes and critiques the socially constructed nature of

reproductive practices and their articulation with relations of power. Topics range from conception to menopause, infertility to population. Cases are drawn from a wide variety of cultural contexts. This course is the second part of a two-semester sequence (beginning with ANTH 650) that examines in detail biological and cultural determinants of human reproduction. (Same as ANTH 660.) Prerequisite: ANTH 650, or 6 hours in Women's Studies, or permission of instructor. LEC

WS 665 Women, Health, and Healing in Latin America (3). S This seminar uses a life-cycle approach to examine women's health (physical, mental, and spiritual) and their roles as healers. Special consideration is given to the effects of development programs on well-being, access to health care, and changing roles for women as healers. Cases will be drawn from a variety of Latin American contexts. (Same as ANTH 665 and LAA 665.) Prerequisite: 6 hours course work in Anthropology and/or Women's Studies and/or Latin American Studies. LEC

WS 696 Studies in: ____ (3). S Interdisciplinary study of different aspects of women's studies in different semesters. LEC

WS 701 Seminar in: ____ (3).

WS 789 Anthropology of Gender: Advanced Seminar in the Four Fields (3).

WS 797 Directed Readings (1-3).

Yiddish

See Germanic Languages and Literatures.

Zoology

Students may concentrate in this area by seeking either a B.A. degree or a B.S. degree (organismal biology option) in biology. See Biological Sciences.

School of Allied Health

Karen L. Miller, Dean

KU Medical Center, Mail Stop 2006

3901 Rainbow Blvd., Kansas City, KS 66160

www.alliedhealth.kumc.edu

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School of Allied Health

Karen L. Miller, Dean
Office of Student Affairs, KU Medical Center
Mail Stop 2007, 3901 Rainbow Blvd.
Kansas City, KS 66160
alliedhealth@kumc.edu or www.alliedhealth.kumc.edu
Phone: (913) 588-5235, Fax: (913) 588-5254,
TDD: (913) 588-7963
Degrees offered: B.S., M.A., M.O.T., M.S., Ph.D.

The School of Allied Health is one of the three schools at the University of Kansas Medical Center in Kansas City, Kansas. The school offers graduate and undergraduate degrees and certificate programs that prepare students for careers in health professions. Undergraduate programs include clinical laboratory science, cytotechnology, health information management, and respiratory care.

Admission

For admission to School of Allied Health programs, follow procedures described in the program listings. For admission to KU preprofessional curricula on the Lawrence campus, see Undergraduate Admission and Scholarships in the General Information chapter of this catalog or visit www.admissions.ku.edu. First- and second-year students interested in careers in the health professions can prepare for admission to upper-division programs by taking the prerequisite courses listed in the program requirements.

This information is subject to change. Visit the school's Web site for current information.

Visit Our Web Site

The School of Allied Health Web site, www.alliedhealth.kumc.edu, has current information about the school. Visit the Web site for information about Allied Health programs, faculty, resources, policies, and procedures.

Tuition and Fees

Allied Health students pay regular KU undergraduate tuition and fees. See Tuition and Fees in the General Information chapter or visit www.registrar.ku.edu/fees or www.kumc.edu/studentcenter/registrar.

Advising

Students on the Lawrence campus should consult an allied health adviser in the Freshman-Sophomore Advising Center, 126 Strong Hall, (785) 864-2834. At KUMC, contact your department office.

University Honors Program

The school encourages all qualified students to participate in the University Honors Program. See University Honors Program in the College of Liberal Arts and Sciences: General Requirements chapter.

Regulations

For information about University of Kansas regulations, see the General Regulations chapter of this catalog.

Biometry

No degree program is offered, but the course below is applicable toward degrees in related departments.

● Biometry Course

BIOM 300 Statistical Concepts and Research Design (3). Elementary descriptive statistics of a sample of measurements; probability; various types of distribution, populations, and sampling from populations. Testing of hypotheses and confidence intervals. Simple nonparametric tests. Correlation and simple linear regression. An orientation to research procedures and various types of research designs using illustrations applicable to the health sciences will be the underlying theme. LEC

Clinical Laboratory Sciences

(Formerly Medical Technology)

Chair: Venus Ward, clsed@kumc.edu
 KU Medical Center, G014 Eaton Hall,
 Mail Stop 4048G-EATON
 3901 Rainbow Blvd., Kansas City, KS 66160
 (913) 588-5220, TDD: (913) 588-7963, www.cls.kumc.edu
 Degree offered: B.S.

The department offers a Bachelor of Science degree in Clinical Laboratory Science with a concentration in clinical laboratory science or molecular biotechnology as preparation for entry-level positions as clinical laboratory scientists or molecular biotechnologists. The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 8410 West Bryn Mawr Ave., Suite 670, Chicago, IL 60631, (733) 714-8880.

The clinical laboratory scientist (medical technologist) performs laboratory analyses on blood, tissue, and fluids in the human body using precision instruments such as microscopes and automatic analyzers. Test results play an important role in the detection, diagnosis, and treatment of disease. Clinical laboratory scientists establish and monitor quality control programs and design or modify procedures to assure accurate results. They recognize interdependency of tests and understand physiological conditions affecting test results in order to provide data used by a physician in determining the presence, extent, and as far as possible, the cause of disease.

Photo, page 226:
Combining business and computer expertise with health care knowledge, health information managers help ensure health care quality by gathering, processing, using, and interpreting health data while protecting the patient's confidentiality.

Molecular biotechnologists perform analyses of nucleic acids, proteins, and cell cultures in clinical and research settings. In clinical settings, they may be involved in establishing diagnosis, aiding disease classification, predicting prognosis, monitoring therapy, and assessing drug sensitivity or resistance. Applications of molecular biotechnology methodologies in a clinical setting include the analysis of infectious diseases, inherited diseases, cancer, immunological states, and forensics. In a research setting, molecular biotechnologists participate in basic and applied studies of biological systems and macromolecular structure and function, and may use genomic and proteomic approaches in this analysis.

Students on the Lawrence campus preparing to enter allied health degree programs may consult the Freshman-Sophomore Advising Center, Strong Hall, 1450 Jayhawk Blvd., Room 126, Lawrence, KS 66045-7535, (785) 864-2834, www.advising.ku.edu.

For nursing programs, see the School of Nursing chapter of this catalog.

Admission

This program requires two years of preparatory college course work (59 hours minimum) and two years of professional course work. Students interested in clinical laboratory science should contact the department at KU Medical Center for advising early in their college work. Academic advising is available on the Lawrence and Kansas City campuses. The program is also open to students who have B.A., B.S., or B.G.S. degrees, if they have completed the prerequisites.

Applications for the professional program may be obtained from the department at www.cls.kumc.edu.

The program begins each fall semester. Applications should be submitted by January 15 of the year for which admission is requested. The application must be accompanied by a complete college transcript and three letters of recommendation, two of which should be from college basic science instructors.

Admission Requirements. The student must have earned a 2.3 grade-point average in chemistry, biology, physics, and microbiology courses, and at least a 2.0 cumulative grade-point average.

Students for whom English is a second language **must** satisfy the following requirements:

1. *Computer-based TOEFL.* Recent (within the last two years): At least 23 or higher on each section and a score of 4.5 on the essay; **or** *Paper-based TOEFL.* Recent (within the last two years): At least 57 on each section with a 4.5 or higher on the Test of Written English; **or** *Internet-based TOEFL.* Recent (within the last two years): At least 23 or higher on each section and a score of 4.5 on the essay; **or** *IELTS.* An official Test Report Form (within the last two years) for the academic format of the International English Language Testing System with an overall band score of 6.5 and no part score lower than 6.0; **or** *AEC Exam.* Successfully pass the KU Lawrence campus Applied English Center's Full Proficiency Test for English.
2. The TOEFL may be satisfied if the student is a citizen of a country in which English is the native language (Great Britain, Australia, New Zealand, or English speaking provinces in Canada) or holds a baccalaureate degree or higher from a U.S. institution or a country listed above.
2. A minimum score of 45 on the TSE (Test of Spoken English) exam or a minimum of 45 on the Speak Test (new scoring system, previous scoring system minimum of 230 required; available at the AEC, Lawrence campus).

Requirements for Admission to Allied Health Programs

Students must complete these requirements to be considered for admission to the programs listed. Completing the required courses does not guarantee admission to the professional programs. Admission procedures are described in each program's section of this catalog. Students interested in allied health programs also may consult the Freshman-Sophomore Advising Center, 126 Strong Hall, (785) 864-2834, www.advising.ku.edu. Transfer students are especially urged to consult individual program descriptions and the Transfer of Credit section in the General Regulations chapter of this catalog.

The total number of hours needed for admission may vary for different programs. Additional course work may be necessary for admission. Consult an adviser for the program in which you are interested for help in sequencing the required courses, in selecting elective hours, and in planning to meet required totals.

Prerequisite	Clinical Laboratory Science	Cytotechnology
English	ENGL 101, 102	ENGL 101, 102
Western Civilization	Recommended	6 hrs. or equivalent
Oral Communication	COMS 130	COMS 130 or 150
Mathematics	MATH 101 or 104, MATH 365 or BIOL 570	MATH 101 or 104 or exemption
Chemistry	CHEM 184, 188, 624 or 622, 625	CHEM 184, 188 (10 hrs.)
Physics	No requirement	No requirement
Biology	BIOL 150, 400 & 402, 246, 350	BIOL 150 & either BIOL 240 or BIOL 246, plus electives to total 20 hrs.
Humanities	2 courses	6 hours
Social Sciences	2 courses	6 hours
Other	One computer course	29 hours general electives
Pre-Admission Test	*No requirement	*No requirement

*Some schools of allied health require a pre-admission test. Check with the specific college or university.

These requirements **must** be met **before** beginning the professional program (Year 3 of the degree program).

Good physical and mental health are essential. Minor physical handicaps are not considered deterrents to admission. Physical examinations are required before registration in professional course work. The admissions committee requires a personal interview with the applicant. Admission is competitive.

This information is subject to change. Contact the department for the latest update.

Bachelor of Science in Clinical Laboratory Science Degree Requirements

Prerequisites. Students must complete the following or equivalent courses:

English (6 hours)	
ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
Communication Studies (3 hours)	
COMS 130 Speaker-Audience Communication	3
Mathematics (6 hours)	
MATH 101 Algebra	3
MATH 365 Elementary Statistics (3) or	
BIOL 570 Introduction to Biostatistics (3) (or equivalent)	3
Biology (10 hours)	
BIOL 150 Principles of Molecular and Cellular Biology	4
BIOL 246 Principles of Human Physiology	3
BIOL 350 Principles of Genetics	3
Chemistry (15 hours)	
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ..	10
CHEM 622 Fundamentals of Organic Chemistry (3) or	
CHEM 624 Organic Chemistry I (3)	3
CHEM 625 Organic Chemistry I Laboratory	2
Microbiology (5 hours)	
BIOL 400 Fundamentals of Microbiology	3
BIOL 402 Fundamentals of Microbiology Laboratory	2
Liberal Arts and Sciences Courses (13-15 hours)	
Humanities electives (two courses)	6
Social sciences electives (two courses)	6
Computer course	1-3

Clinical Laboratory Science (1 hour recommended)	
CLS 210 Introduction to Clinical Laboratory Sciences	1

This suggested sequence of course work may be helpful in planning enrollment in the first two years:

First Year

Fall Semester (13 hours)	
ENGL 101 Composition	3
BIOL 150 Principles of Molecular and Cellular Biology	4
MATH 101 Algebra or MATH 115 Calculus I	3
Social sciences elective	3
Spring Semester (14 hours)	
ENGL 102 Critical Reading and Writing	3
Social sciences/world culture elective	3
BIOL 246 Principles of Human Physiology	3
CHEM 184 Foundations of Chemistry I	5
Summer Session (5 hours)	
CHEM 188 Foundations of Chemistry II	5

Second Year

Fall Semester (13-15 hours)	
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 622 Fundamentals of Organic Chemistry (3) or	
CHEM 624 Organic Chemistry I (3)	3
BIOL 570 Introduction to Biostatistics (3) or	
MATH 365 Elementary Statistics (3)	3
CLS 210 Introduction to Clinical Laboratory Sciences	1
Computer course	1-3
Humanities elective	3
Spring Semester (14 hours)	
BIOL 400 Fundamentals of Microbiology	3
BIOL 402 Fundamentals of Microbiology Laboratory	2
COMS 130 Speaker-Audience Communication	3
Humanities elective	3
BIOL 350 Principles of Genetics	3

Professional Program in Clinical Laboratory Science.

The professional program includes the following required courses:

BIOL 503 Immunology	3
BIOL 600 Introductory Biochemistry, Lectures	4
CLS 520 Phlebotomy	1
CLS 523 Fundamental Analytical Techniques Laboratory	2
CLS 530 Clinical Chemistry I	3
CLS 531 Clinical Chemistry I Laboratory	1



Health Information Management	Occupational Therapy	Respiratory Care
ENGL 101, 102, 362	ENGL 101, 102, & advanced composition or technical writing	ENGL 101, 102
No requirement	No requirement	No requirement
COMS 130 or 150	COMS 130 or 150	COMS 130 or 150
No requirement	MATH 101 or higher, Introductory statistics course	MATH 101 or higher, MATH 365
No requirement	No requirement	CHEM 125 or 184
No requirement	No requirement	PHSX 111
BIOL 100 or 101 & 102 or 103, 246 & 247, 240, 241 or 242	BIOL 100 or 150, 240, 241 or 242, 246; 247 recommended; 102 recommended for students taking 100	BIOL 150, 200, 203, 240, 241, 246, 247
6 hours	PHIL 160 or 677; Diversity elective. (Contact dept.)	PHIL 160 or 677
PSYC 104, SOC 104	PSYC 104, 350, 333 (or 490 or ABSC 160), ABSC 342 (or PSYC 691), SOC 104	1 course
ACCT 200	HSES 248; 9 hrs. electives from ABSC, PSYC, SOC, &/or SPED; general electives to bring total to 90 hrs.; 40 hrs. volunteer/work experience; OCHT 101 or interview with practicing therapist. (Contact dept.)	3 hrs. ethics; HSES 248; 3 hrs. humanities; 3 hrs. fine arts; 3-5 hrs. math/science; 6 hrs. general electives; ENGL 203 or 362 recommended
*No requirement	*No requirement	*No requirement

The KU Undergraduate Catalog or Graduate School Catalog can be purchased from the KU Medical Center Bookstore, Mail Stop 4036, 3901 Rainbow Blvd., Kansas City, KS 66160, (800) 262-7509, or in Kansas City, (913) 588-2537, bookstore@kumc.edu, www.kumedbooks.com.

Premedical, predoctoral, and preoptometry programs are described under Premedical Professions in the College of Liberal Arts and Sciences chapter of this catalog.

CLS 532 Clinical Microbiology I	3
CLS 533 Clinical Microbiology I Laboratory	2
CLS 536 Hematology I	3
CLS 537 Hematology I Laboratory	2
CLS 540 Clinical Chemistry II	1
CLS 541 Senior Seminar in CLS	3
CLS 542 Clinical Microbiology II	3
CLS 543 Clinical Microbiology II Laboratory	2
CLS 544 Immunohematology I	3
CLS 545 Immunohematology I Laboratory	2
CLS 546 Hematology II	3
CLS 547 Hematology II Laboratory	2
CLS 549 Clinical Immunology I Laboratory	2
CLS 605 Introduction to Molecular Biotechnology I	1
CLS 640 Clinical Chemistry III	2
CLS 641 Clinical Chemistry Practicum	3
CLS 642 Clinical Microbiology III	2
CLS 643 Clinical Microbiology Practicum	3
CLS 644 Immunohematology II	1
CLS 645 Immunohematology Practicum	1
CLS 646 Hematology III	2
CLS 647 Hematology Practicum	3
CLS 648 Clinical Immunology II	1
CLS 649 Clinical Immunology Practicum	1
CLS 550 Clinical Laboratory Science Review	1
CLS 661 Management Principles in Health Care	3
CLS 690 Special Topics	1

Fees. KU undergraduate tuition and fees apply.

Career Opportunities. Graduates are eligible to sit for national certification examinations for clinical laboratory scientists (medical technologists). Successful completion provides a nationally recognized credential as a Medical Technologist or Clinical Laboratory Scientist. Employment opportunities are found in hospitals, reference laboratories, governmental agencies, physicians' offices, research laboratories, and industry.

Professional Program in Molecular Biotechnology.

The professional program includes the following required courses:

BIOL 503 Immunology	3
BIOL 600 Introductory Biochemistry, Lectures	4
CLS 520 Phlebotomy	1
CLS 523 Fundamental Analytical Techniques Laboratory	2
CLS 530 Clinical Chemistry I	3
CLS 531 Clinical Chemistry I Laboratory	1
CLS 532 Clinical Microbiology I	3
CLS 533 Clinical Microbiology I Laboratory	2
CLS 536 Hematology I	3
CLS 537 Hematology I Laboratory	2
CLS 540 Clinical Chemistry II	1
CLS 541 Senior Seminar in CLS	3
CLS 542 Clinical Microbiology II	3
CLS 543 Clinical Microbiology II Laboratory	2
CLS 544 Immunohematology I	3
CLS 545 Immunohematology I Laboratory	2
CLS 546 Hematology II	3
CLS 547 Hematology II Laboratory	2
CLS 549 Clinical Immunology I Laboratory	2
CLS 605 Introduction to Molecular Biotechnology I	1
CLS 610 Advanced Biotechniques	3
CLS 611 Advanced Biotechniques Laboratory	2
CLS 615 Journal Club	1
CLS 620 Radiation Safety	1
CLS 621 Biotechnology Methodologies Practicum	4
CLS 622 Problems in Molecular Genetics, Molecular Diagnostics, Proteomics, and Molecular Immunology	2
CLS 623 Molecular Genetics Practicum	4
CLS 655 Molecular Biotechnology Review Course	1
CLS 661 Management Principles in Health Care	3
One elective practicum to be selected from the following courses: ...	4
CLS 625 Cytogenetics Practicum (4)	
CLS 627 Protein Structure/Function Practicum (4)	
CLS 629 Cytokine/Chemokine Practicum (4)	
CLS 631 Molecular Immunology Practicum (4)	
CLS 633 Special Topics Practicum (4)	

Fees. KU undergraduate tuition and fees apply. An additional biotechnology laboratory fee is assessed.

Career Opportunities. Graduates are eligible to sit for national certification examinations in molecular biology. Successful completion provides a nationally

recognized credential as a Certified Laboratory Specialist in Molecular Biology, CLSp(MB). Employment opportunities are found in hospitals, reference laboratories, and research laboratories in academic, governmental, and industrial settings.

● Clinical Laboratory Science Courses

CLS 210 Introduction to Clinical Laboratory Sciences (1). An introductory overview of the professions of Clinical Laboratory Sciences and Cytotechnology including types of analyses performed, specialties, interrelationships in the health care system and a visit to a clinical laboratory. This course will enable those considering a major in the Clinical Laboratory Sciences to have a clear definition of the professions. (Same as BIOL 210.) LEC

CLS 520 Phlebotomy (0.5-1). Principles and practice of collecting blood specimens for clinical laboratory analyses. Includes specimen identification, equipment, anticoagulants, safety precautions, specimen transport, and processing. Hepatitis immunization required. Prerequisite: Admission to the Clinical Laboratory Science Program or consent of instructor. LAB

CLS 523 Fundamental Analytical Techniques Laboratory (2). A laboratory classroom experience and recitation providing hands-on practice of basic laboratory skills. Laboratory exercises will provide practice with: reagent preparation; pipetting of reagents and specimen; microscope care and use; a variety of assays utilizing spectrophotometric quantitation methods; separation of serum proteins by electrophoresis. The theory underlying accuracy and precision in laboratory testing will be included. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of the instructor. LBN

CLS 530 Clinical Chemistry I (3). Introductory principles of testing, methods of analysis, data interpretation, and clinical significance of routine clinical chemistry procedures and instrumentation. Prerequisite: CLS 523 or CLS 523 concurrently or consent of the instructor. LEC

CLS 531 Clinical Chemistry I Laboratory (1). A laboratory classroom experience and recitation in introductory clinical chemistry laboratory procedures addressing methods of analysis of body fluid substances. Prerequisite: CLS 523, CLS 530 or CLS 523 and CLS 530 concurrently or consent of program or consent of instructor. LAB

CLS 532 Clinical Microbiology I (3). Pathogenesis and disease processes of pathogenic, opportunistic, and saprophytic bacteria; composition and preparation of media; sterilization and disinfection; antimicrobial agents; topics related to theory and applications of the foregoing. The relationships between fundamental and applied microbiology are stressed. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of the instructor. LEC

CLS 533 Clinical Microbiology I Laboratory (2). A laboratory classroom experience and recitation that addresses the culture of clinically significant bacteria and diagnostic procedures. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of the instructor. LBN

CLS 536 Hematology I (3). Fundamentals of hematopoiesis; the physiology, function, and cytochemistry of normal and abnormal blood cells; the theory and performance of clinical laboratory methods related to these parameters. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of the instructor. LEC

CLS 537 Hematology I Laboratory (2). A laboratory classroom experience and recitation involving performance of fundamental hematology laboratory procedures with emphasis on basic hematologic techniques and the identification of normal and abnormal cells in the peripheral blood and bone marrow. Prerequisite: CLS 536, or CLS 536 concurrently, or consent of the instructor. LAB

CLS 540 Clinical Chemistry II (1). Intermediate principles of testing, methods of analysis, data interpretation, and clinical chemistry procedures and instrumentation with an emphasis on instrumentation theory, preventative maintenance, and trouble shooting. Prerequisite: CLS 530 and CLS 531 or consent of instructor. LEC

CLS 541 Senior Seminar in CLS (3-4). A projects course including the following topic areas; testing methods and instrument evaluation, cost-benefit analysis and procurement to outfit a clinical laboratory area; utilizing a medical chart to prepare a case study for presentation; methods in preparing an oral or poster presentation; preparing and presenting a poster at a state professional meeting. Prerequisite: CLS 530, CLS 531 and CLS 540 concurrently; or consent of instructor. LEC

CLS 542 Clinical Microbiology II (3). Lectures on clinically significant fungi/yeasts and parasites; topics related to theory and applications of the foregoing. The relationships between fundamental and applied microbiology are stressed. Prerequisite: CLS 532 and CLS 533 or consent of the instructor. LEC

CLS 543 Clinical Microbiology II Laboratory (2). Laboratory classroom experience and recitation that addresses the culture of clinically significant fungi/yeasts and related diagnostic procedures; morphology of clinical significant parasites and related diagnostic procedures. Prerequisite: CLS 532 and CLS 533 or consent of the instructor. LAB

CLS 544 Immunohematology I (3). Basic principles of immunohematology as applied to transfusion services, donor services, compo-

nent preparation and storage, legal and regulatory issues and component utilization with emphasis on provision of blood safe for transfusion. Prerequisite: Admission to the CLS program and BIOL 503 (or equivalent) or consent of instructor. LEC

CLS 545 Immunohematology I Laboratory (2). A laboratory classroom experience and recitation that addresses basic techniques of blood banking including blood typing compatibility testing and antibody identification. Emphasis will be on problem solving for transfusion related situations as well as evaluation of special problems related to hemolytic disease of the newborn, autoimmune hemolytic disorders and transfusion reactions. Prerequisite: CLS 544, or CLS 544 concurrently, or consent of instructor. LAB

CLS 546 Hematology II (3). Intermediate lectures on hematopoiesis, the physiology, function, and cytochemistry of normal and abnormal blood cells, normal and abnormal hemostasis, and the theory and performance of laboratory methods related to these parameters. Prerequisite: CLS 536 and CLS 537 or consent of instructor. LEC

CLS 547 Hematology II Laboratory (2). A laboratory classroom experience and recitation involving performance of intermediate hematology laboratory procedures with emphasis on basic hematologic and coagulation techniques and the identification of normal and abnormal cells in the peripheral blood and bone marrow. Prerequisite: CLS 536, CLS 537 and CLS 546 or CLS 546 concurrently, or consent of the instructor. LAB

CLS 549 Clinical Immunology I Laboratory (2). A laboratory classroom experience with recitation involving performance of basic immunoassays including emphasis on theory (application of immunologic principles related to laboratory testing), technique, quality control and safety. Prerequisite: CLS 523 and BIOL 503 or CLS 523 and BIOL 503 concurrently, or consent of instructor. LEC

CLS 605 Introduction to Molecular Biotechnology I (1). An introduction to molecular biology and molecular biological methodologies and technologies commonly used in basic, applied, and diagnostic laboratories. An emphasis is placed on molecular biology principles and techniques used in the clinical laboratory for diagnosis, prognosis, and treatment of disease. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of the instructor. LEC

CLS 610 Advanced Biotechniques Lecture (3). A lecture course covering the theory behind a variety of current molecular, biochemical and immunologic techniques utilized in today's research and diagnostic laboratories. Material presented will include proper specimen preparation and handling; technique set-up and quality control; trouble shooting and technique modification. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LEC

CLS 611 Advanced Biotechniques Laboratory (2). Student Laboratory course with practical application of selected molecular, biochemical, and immunologic techniques. Designed to provide limited experience with advanced chromatographic techniques (DEAE-cellulose, affinity columns, HPLC, and gas); multiple electrophoresis techniques (starch-gel, SDS-page, Southern blot); nucleic acid analysis and manipulation; ligand production and utilization; cell culture, including appropriate sterilization methods, aseptic handling, and steps to ensure attachment. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LAB

CLS 615 Journal Club (1). Introduction to analysis of journal articles. Initial sessions will place an emphasis upon reading the article with an eye to replicating a described method or specific technique; analyzing data presented for validity; acceptance or rejection of the researchers' conclusions. Follow-up sessions will involve analyzing and presenting selected articles. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LEC

CLS 620 Radiation Safety (1). A lecture course covering the structure of the atom, isotopes, and radioactivity. Emphasis will be on radiation protection and safe handling of isotopes. In addition, the student will be introduced to methods for detection and quantitation of radioactivity in biological materials. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LEC

CLS 621 Biotechnology Methodologies Practicum (4). Placement of the student in a biotechnology core facility supporting molecular biological research from multiple laboratories. Such a core facility would provide, but not to be restricted to, the following methodologies: amino acid analysis; protein/peptide sequencing; peptide synthesis; DNA/RNA sequencing; oligonucleotide synthesis. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LAB

CLS 622 Problems in Molecular Genetics, Molecular Diagnostics, Proteomics, and Molecular Immunology (2). Web based course that provides the student with a targeted review of molecular and cytogenetics techniques, current theory, techniques and applications concerning protein structure and function, current theory, techniques and applications of molecular immunology. Review in each topic is augmented with situation simulations in research and diagnostic applications of the appropriate techniques. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of the instructor. LEC

CLS 623 Molecular Genetics Practicum (4). Placement of the student in a molecular genetics research laboratory (utilizing either

prokaryotic or eucaryotic organisms or both) working with laboratory staff on an on-going small project within the laboratory. Molecular genetics laboratories utilized could be involved in, but not restricted to, any of the following activities: gene sequencing, cloning or splicing; elucidation of the mechanisms that regulate gene expression; proto-oncogene activation. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LAB

CLS 625 Cytogenetics Practicum (4). Placement of the student in a cytogenetics laboratory. Cytogenetics laboratories utilized would be involved in, but not restricted to, performing cell culture and harvest at metaphase; staining for band identification; FISH. Prerequisite: Admission to the Clinical Laboratory Sciences programs or consent of instructor. LAB

CLS 627 Protein Structure/Function Practicum (4). Placement of the student in a protein chemistry laboratory (utilizing either prokaryotic or eucaryotic organisms or both). Laboratories utilized could be involved in, but not restricted to, protein production on a large scale; protein isolation and purification; amino acid sequencing; elucidation of three-dimensional structure; determination of the function(s) of the protein studied. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LAB

CLS 629 Cytokine/Chemokine Practicum (4). Placement of the student in a molecular biology or molecular immunology research laboratory that focuses on cell-to-cell signaling. Laboratories utilized could be involved in, but not restricted to, cytokine/chemokine production and isolation; biochemical characterization of the molecule; elucidation of function. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LAB

CLS 631 Molecular Immunology Practicum (4). Placement of the student in an immunochemistry or cell mediated immunology research laboratory. Laboratories utilized could be involved in, but not restricted to, cytokine/chemokine production and isolation; biochemical characterization of an immune mediator; elucidating the functions(s) of an immune mediator; cell-to-cell communication in regulation of immune function; cellular interactions; HLA phenotypes and risk rate for immune function disease; antigen characterization and vaccine development. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LAB

CLS 633 Special Topics Practicum (4). Placement of the student in any of a variety of research laboratories actively participating in molecular biological projects utilizing advanced genetic, biochemical immunologic, or other molecular techniques. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LAB

CLS 640 Clinical Chemistry III (2). Advanced clinical chemistry lectures on correlation of laboratory analysis with pathophysiology addressing organ system disease, metabolic disease, nutrition, and special topics in clinical chemistry. Prerequisite: CLS 530, CLS 531, and CLS 540 or consent of the instructor. LEC

CLS 641 Clinical Chemistry Practicum (3). A tutorial instruction and clinical laboratory experience in chemistry of body fluid substances based on the application of knowledge and skill to methodology, instrumentation, quality control, and correlation of chemical analysis to pathophysiology. Prerequisite: CLS 640 or CLS 640 concurrently, or consent of instructor. LAB

CLS 642 Clinical Microbiology III (2). Lectures on viruses, rickettsia, chlamydia, mycoplasma, and other unusual organisms, signs and detection of infection, antibiotics including classes, structure, function and assay. Prerequisite: CLS 532, CLS 533, CLS 542 and CLS 543, or consent of the instructor. LEC

CLS 643 Clinical Microbiology Practicum (3). A tutorial instruction and clinical laboratory experience in diagnostic microbiology. Prerequisite: CLS 642 or CLS 642 concurrently, or consent of instructor. LAB

CLS 644 Immunohematology II (1). Advanced blood banking and theory focused on the problems encountered in the hospital transfusion service and a donor drawing center. Prerequisite: CLS 544 and CLS 545, or consent of instructor. LEC

CLS 645 Immunohematology Practicum (1). Individual participation in a hospital immunohematology laboratory. Students gain practical experience in the use of procedures and equipment by working with the staff. Performance of standard laboratory procedures will be done under supervision. Prerequisite: CLS 544, CLS 545, and CLS 644, or CLS 644 concurrently, or consent of instructor. LAB

CLS 646 Hematology III (1). Advanced lectures on hematologic and hemorrhagic disorders with emphasis on pathological mechanisms, interpretation, and clinical correlation of test results. Prerequisite: CLS 536, CLS 537, CLS 546, and CLS 547, or consent of instructor. LEC

CLS 647 Hematology Practicum (3). A tutorial laboratory experience conducted in the clinical setting and designed to provide expertise in current methodology, instrumentation, and automation of basic and advanced hematology and coagulation procedures. Prerequisite: CLS 546, CLS 547, and CLS 646, or CLS 646 concurrently, or consent of instructor. LAB

CLS 648 Clinical Immunology II (1). Lectures on immune system involvement in disease processes and correlation of immunologic laboratory test data to disease conditions. Prerequisite: CLS 549, or consent of instructor. LEC

The 2006 Fiske Guide to Colleges calls KU's School of Allied Health a standout.

For a current list of courses required for the majors, contact department offices or the Freshman-Sophomore Advising Center, Strong Hall, 1450 Jayhawk Blvd., Room 126, Lawrence, KS 66045-7535, (785) 864-2834, www.advising.ku.edu, on the Lawrence campus.

CLS 649 Clinical Immunology Practicum (1). Practice of basic immunoassay procedures and introduction to immunonephelometry as well as direct and indirect fluorescent antibody technique. Prerequisite: CLS 648 or CLS 648 concurrently, or consent of instructor. LAB

CLS 650 Clinical Laboratory Science Review (1). This review will enable students to identify areas of weakness in their understanding of clinical laboratory science. Students will participate in question-answer sessions and panel discussions in order to evaluate their performance in meeting required competencies. Prerequisite: CLS 520-CLS 549 inclusive, CLS 605, CLS 661, and CLS 640-CLS 649 inclusive, or consent of instructor. LEC

CLS 655 Molecular Biotechnology Review Course (1). Situation and problem solving oriented web based course that reviews material taught. This course will enable students to identify areas of weakness in their understanding of molecular biotechniques and their applications. Interactive question-answer format and a comprehensive, certification-type exam will aid students in evaluating their performance in meeting required competencies. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of instructor. LEC

CLS 661 Management Principles in Health Care (3). Introduction to basic principles of management, education, and research and their application in the current health care environment. Course content includes: management theory, scope of management, quality issues, budgeting, personnel issues, evaluation and application of management concepts; educational methodologies; introductory research methods and evaluation of journal articles. Cross listed with HEIM 661 and RESP 661. Prerequisite: Admission to the Clinical Laboratory Sciences program or consent of the instructor. LEC

CLS 670 Principles of Education in Clinical Laboratory Science (1). Educational concepts including principles of learning, curriculum design, evaluation, teaching methodologies, audiovisual and library resources, accreditation, student services, and legal considerations. Prerequisite: Admission to the Clinical Laboratory Science program or consent of instructor. LEC

CLS 690 Special Topics (0.5-5). A course of study offering the student the opportunity for acquisition of additional knowledge and skills in one of the clinical laboratory routine areas or a specialty area, e.g., cytogenetics, metabolic analysis, or supervision; or at another clinical site. Course requirements designed in cooperation with student. Prerequisite: Admission to the Clinical Laboratory Science program or consent of instructor. LEC

Cytotechnology

Program Director: Marilee Means, cytotech@kumc.edu
 KU Medical Center, 1600 KU Hospital, Mail Stop 1035
 3901 Rainbow Blvd., Kansas City, KS 66160
 (913) 588-1175, TDD: (913) 588-7963
www.kumc.edu/allied/programs/cytotech

Degree offered: B.S.

Cytotechnology, an allied health profession, plays a key role in the delivery of high-quality medical care. Cytotechnologists perform the initial work in detecting and diagnosing cancer by identifying malignant cells in patient specimens. Other benign and premalignant conditions also can be detected. When abnormalities are found, a pathologist reviews the slides and makes the final interpretation. Also, the cytotechnologist prepares and stains the microscopic slides using a variety of laboratory stains and equipment. Fine-needle aspiration is becoming an increasingly important diagnostic tool, and the cytotechnologist must be trained to assist in this technique as well as to interpret the material derived from the various body sites. The program is accredited by the Commission on Accreditation of Allied Health Education Programs.

Admission

This program requires three years of preparatory college course work and one year of professional course work. The program is also open to students who have B.A., B.S., or B.G.S. degrees, if they have completed the prerequisites. Applications for the one-year professional program may be obtained from and submitted to the cytotechnology program. Applications for

the fall semester should be submitted by March 1 of the year for which admission is requested. The application must be accompanied by a complete college transcript and two letters of recommendation.

Admission Requirements. Minimum entry requirements are three years of college work (90 semester credit hours), an overall grade-point average of 2.3, and a grade-point average of 2.5 in biology, chemistry, and mathematics before starting the fourth year. Students for whom English is a second language **must** satisfy **both** of the following requirements **before** beginning the professional program (the fourth year of the degree program):

1. Paper-based test scores of 57 on each section with a 4.5 or higher on the Test of Written English **or**

Computer-based TOEFL test scores of 23 or higher on each section and a score of 4.5 on the essay **or**

Internet-based TOEFL test scores of 23 or higher on each section and a score of 4.5 on the essay **or**

Official Test Report Form (within the last two years) for the academic format of the International English Language Testing System (IELTS) with an overall band score of 6.5 and no part score lower than 6.0.

2. A minimum score of 45 on the Test of Spoken English examination or a minimum score of 45 on the Speak Test available at the Applied English Center on the Lawrence campus.

Good physical and mental health are essential. Minor physical handicaps are not considered deterrents. Physical examinations and a color-blindness test are required before registration in the professional course work. A personal interview with the applicant and two letters of recommendation are required.

Bachelor of Science in Cytotechnology Degree Requirements

To graduate from KU and be eligible to sit for the CT (ASCP) registry examination, students must have completed a minimum of 129 credit hours, including 39 hours in the cytotechnology program. Three years of study must be completed on the Lawrence campus and the fourth year at KU Medical Center. Students may transfer credits from other colleges and universities if courses are equivalent to those required at KU. Students must receive grades of B or above to continue.

First-, Second-, and Third-year Preparation. Students must complete a minimum of 90 credit hours, with no more than 64 hours of lower-division classes. The following courses should be included:

English (6 hours)	
ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
Mathematics (3-5 hours)	
MATH 101 Algebra (or exemption) (3) or	
MATH 104 Precalculus Mathematics (5)	3-5
Biology (20 hours)	
BIOL 150 Principles of Molecular and Cellular Biology	4
and either BIOL 240 Fundamentals of Human Anatomy (3) or	
BIOL 246 Principles of Human Physiology (3)	3
Plus additional biology courses to total 20 credit hours (see below for biology course suggestions)	
Chemistry (10 hours)	
CHEM 184 and CHEM 188 Foundations of Chemistry I and II... 10	
Liberal Arts and Sciences Courses (18 hours). Elective credits should total at least 18 hours and must include the following:	
Humanities	6
Social sciences	6
Western civilization (or equivalent)	6

Recommended courses: Biology electives and other electives may be chosen from the following:

Biology Electives	
BIOL 350 Principles of Genetics (3)	
BIOL 416 Cell Structure and Function (3)	
BIOL 417 Biology of Development (3)	

BIOL 450 Cancer Biology (3)
 BIOL 570 Introduction to Biostatistics (3)
 BIOL 595 Human Genetics (2)

Mathematics Elective

MATH 365 Elementary Statistics (3)

Computer Science Elective

EECS 128 Introduction to Computer-based Information Systems (3)

History of Art Elective

H A 100 Introduction to Art History (3)

Course Sequence. This suggested sequence of course work may be helpful in planning enrollment during the first three years.

First Semester (15 hours)

ENGL 101 Composition 3
 MATH 101 Algebra 3
 CHEM 184 Foundations of Chemistry I 5
 BIOL 150 Principles of Molecular and Cellular Biology 4

Second Semester (17 hours)

ENGL 102 Critical Reading and Writing 3
 CHEM 188 Foundations of Chemistry II 5
 BIOL 240 Fundamentals of Human Anatomy (3) or
 BIOL 246 Principles of Human Physiology (3) 3
 Humanities elective 3
 Social sciences elective 3

Third Semester (13 hours)

Western civilization (or equivalent) 3
 Social sciences elective 3
 Art history 3
 CLS 210 Introduction to Clinical Laboratory Sciences 1
 Other elective 3

Fourth Semester (15 hours)

COMS 130 Speaker-Audience Communication (3) or
 COMS 150 Personal Communication (3) 3
 Western civilization (or equivalent) 3
 Humanities elective 3
 Biology elective 3
 Other electives 3

Fifth Semester (15 hours)

EECS 128 Introduction to Computer-based Information Systems 3
 Biology electives 6
 Other electives 6

Sixth Semester (15 hours)

MATH 365 Elementary Statistics 3
 Biology electives 6
 Other electives 6

Clinical Program in Cytotechnology. The professional program requires enrollment during the fall, spring, and summer semesters of the senior year. The following courses are required:

CYTO 300 Introduction to Cytology 5
 CYTO 321 Neoplasia in the Female Genital Tract I 5
 CYTO 322 Neoplasia in the Female Genital Tract II 6
 CYTO 355 Cytology Lab Management, Respiratory Cytology, and Oral Cytology 4
 CYTO 370 Effusions, C.S.F. and Miscellaneous Cytology 3
 CYTO 380 Gastrointestinal, Breast, G.U., and F.N.A. Cytology 6
 CYTO 415 Scientific Method and Literature in Cytology 1
 CYTO 420 Advanced Practicum in Cytology 3
 CYTO 450 Advanced Topics in Cytology 3
 CLS 661 Management Principles in Health Care 3

Fees. KU undergraduate tuition and fees apply.

Career Opportunities

Graduates are eligible to sit for national certification examinations for cytotechnologists. Successful completion of the examination provides a nationally recognized credential as a cytotechnologist. Employment opportunities are available in hospitals, reference laboratories, governmental agencies, and educational institutions.

● Cytotechnology Courses

CYTO 300 Introduction to Cytology (5). Orientation to the profession of cytotechnology including basic cell biology, ethics, the microscope, history of the profession. Also basic concepts of pathology are introduced including normal, benign proliferative, inflammatory, and reparative processes. The cellular alterations caused by these processes are introduced using the female genital system. The histology, anatomy,

and endocrine system of the female genital tract are also covered. Microscopy of this section includes proper use and care of the microscope, hormonal cytology, and the range of normal reparative reactions. The recognition of specific infectious agents and/or their cellular manifestations is also included using the female genital tract as the body system under investigations. Prerequisite: Admissions to the Cytotechnology Program or permission of instructor. LEC

CYTO 321 Neoplasia in the Female Genital Tract I (5). The pathologic concepts of neoplasia, the morphogenesis of carcinoma, and the cellular changes associated with both premalignant and malignant changes of squamous cell lesions in the cervix are studied. Microscopy in this section includes pre-screening of clinical care load identifying normal and abnormal cellular criteria. Prerequisite: CYTO 300 or instructor's permission. LEC

CYTO 322 Neoplasia in the Female Genital Tract II (6). A continuation of CYTO 321 with the emphasis on lesions of the uterine corpus, metastatic lesions, and lesions of the vulva and vagina. Also treatment effect and pregnancy change are included in this section. Practical microscopy is also continued with the pre-screening of clinical cases. Prerequisite: CYTO 321 or instructor's permission. LEC

CYTO 355 Cytology Lab Management, Respiratory Cytology, and Oral Cytology (4). Cytology lab regulations and QC requirements. Management requirements regarding safety, quality improvement, and personnel. Also, the normal, benign, and malignant changes of the upper and lower respiratory tract and the oral cavity. The anatomy, histology, and cytology of each of the body sites is studied as well as infectious agents common to these sites. Microscopy includes pre-screening gynecologic material while further increasing speed and accuracy. Respiratory and oral specimens are also included in the practical microscopy. Students rotate through the processing laboratory. Prerequisite: CYTO 322 or permission of the instructor. LEC

CYTO 370 Effusions, C.S.F., and Miscellaneous Cytology (3). This course includes the cytology of the reticulo-endothelial system, effusions, CSF, and other miscellaneous fluids. Normal, benign, and malignant cellular criteria are covered as well as the anatomy and histology of each body site. Microscopy includes further practice in gyn material and all non-gyn specimens studied to this point. Students continue to use the processing laboratory on a rotating basis. Prerequisite: CYTO 360 or instructor's permission. LEC

CYTO 380 Gastrointestinal, Breast, G.U., and F.N.A. Cytology (6). This course includes the cytology of the GI system, the breast, the urinary tract, and other miscellaneous body sites. The anatomy and histology of each of the body sites is studied; cellular criteria for benign, normal, and malignant changes are introduced. Advanced topics such as aspiration cytology will also be covered. Microscopy includes further practice in the pre-screening of gyn material as well as all non-gyn material studied to this point. Students continue to use the processing laboratory on a rotating basis. Prerequisite: CYTO 370 or instructor's permission. LEC

CYTO 415 Scientific Method and Literature in Cytology (1). This course will focus on the scientific method and research tools as used in recent journal articles. Discussion will specifically focus on critical evaluation of the conclusions presented and the evidence used to support those conclusions. Also, data retrieval will be practiced as the students research and write a paper on a cytology related topic. Prerequisite: CYTO 380 or instructor's permission. LEC

CYTO 420 Advanced Practicum in Cytology (3). Microscopy includes further practice in the screening of all gyn and non-gyn material at professional entry levels of speed and accuracy. Students continue to use the processing laboratory on a rotating basis and participate in case conference. Prerequisite: CYTO 380 or instructor's permission. LEC

CYTO 450 Advanced Topics in Cytology (3). This course will include lectures on advanced topics in cytology. A comprehensive final examination completes the course. Students continue to increase speed and accuracy in microscopy to at least professional entry levels. Prerequisite: CYTO 420 or instructor's permission. LEC

Dietetics and Nutrition

dietetics@kumc.edu or www.dietetics.kumc.edu

Dietetics and nutrition offers a graduate program; however, the courses below are applicable toward degrees in related departments. See the University of Kansas *Graduate School Catalog*.

● Dietetics and Nutrition Courses

DN 601 Current Concepts in Clinical Nutrition (2). An overview of the nutritional therapies used for various disease disorders. The course emphasizes the nutritional care and treatment related to state of the art practice. LEC

DIET 660 Management of Human Resources in Dietetics (6). Focus on human resource development and utilization as the student works with food service personnel. Learning encompasses recruit-

Prospective health information management students should visit the department Web site for the latest information about changes in the program.

Health information managers work with professionals in allied health, nursing, medicine, hospital administration, law, business, and education.

ing, training, supervision, and evaluation of employees in a food service system. Open only to seniors majoring in dietetics. Prerequisite: Management concepts or personnel administration. LEC

DIET 661 Management of Food Processing and Service (6). Application of theories and concepts pertaining to management functions and interdepartmental relationships in a variety of clinical food service settings. Consideration is given to the newer technological developments in the administration of food services. Open only to seniors majoring in dietetics. Prerequisite: Food service systems and management in dietetics. FLD

DIET 662 Special Problems in Food Service Management (3). Advanced experience in the practice of dietetics in an assigned setting. Problems and procedures will vary with interest and needs of the students. Open only to seniors majoring in dietetics. Prerequisite: Food service systems. FLD

DIET 670 Applied Normal Nutrition (3). Theory, observation, and supervised application of principles of nutritional care and communication in the nutritional care of children and adults in a variety of life situations. Open only to seniors majoring in dietetics. Prerequisite: Principles of nutrition. LEC

DIET 671 Nutrition in Medical Science (6). A team-taught multiple disciplinary approach to the science and practice of nutrition and diet therapy. Therapeutic nutritional principles related to the anomalies in diet with supervised experience. Open only to seniors majoring in dietetics. Prerequisite: Nutrition throughout the life cycle. LEC

DIET 672 Nutrition Care of Patients (6). Directed observation and supervised experience in nutritional care of patients. Nutrition principles studied in DIET 670, Applied Normal Nutrition, and DIET 671, Nutrition in Medical Science, are applied in clinical situations. Open only to seniors majoring in dietetics. Prerequisite: Principles of nutrition; and nutrition throughout the life cycle. LEC

DIET 675 Seminar in Dietetics and Nutrition (1). Involves study and discussion of text and general materials pertaining to philosophy and methodology in the field of dietetics and nutrition. Guest lecturers will participate. May be repeated for credit providing no course duplication takes place. Open only to seniors majoring in dietetics. Prerequisite: Introduction to dietetics. FLD

DN 796 Social and Cultural Aspects of Dietetics and Nutrition (2-4).

Health Information Management

Director: Karl Koob, kkoob@kumc.edu, him@kumc.edu
 KU Medical Center, 1012 Taylor Bldg., Mail Stop 2008
 3901 Rainbow Blvd., Kansas City, KS 66160
 (913) 588-2423, TDD: (913) 588-7963, www.him.kumc.edu

Degree offered: B.S.

As a vital member of the health care team, the health information manager is responsible for managing health information systems. These systems must be consistent with professional standards and the medical, administrative, ethical, and legal requirements of the health care delivery system. The health information manager plans and develops health information systems that meet standards of accrediting and regulatory agencies. This professional also designs health information systems appropriate for various sizes and types of health care facilities; manages the human, financial, and physical resources of a health information service; collects and analyzes patient and facility data for reimbursement, facility planning, marketing, risk management, utilization management, and research; and participates in medical staff and institutional activities in these areas. The Registered Health Information Administrator (RHIA) serves as an advocate for privacy and confidentiality of health information and plans and offers in-service educational programs for health care personnel.

The student learns theory and practice to attain entry-level competencies related to health records in management, personnel administration, legal aspects, health information systems, information retention and retrieval systems, health statistics, research, quality improvement systems, and classification and indexing systems.

Graduates who pass the American Health Information Management Association National Registry Ex-

amination may assume professional responsibilities in many health and information service industries.

The program is approved by the Commission on Accreditation for Health Informatics and Information Management Education, in collaboration with the American Health Information Management Association.

Admission

Students enter the program after two years of required preparatory work. People with degrees who have completed the prerequisites also may apply to the B.S. degree program in health information management. Candidates should contact the program to establish a file as soon as they know of their interest in the program. Applications are not forwarded until a faculty member has analyzed the candidate's transcript to verify completion of prerequisites.

Students should submit applications by March 1 for consideration for entry in the next fall session. The program limits the number of students accepted each year; meeting the March 1 deadline is strongly encouraged. Students who submit applications after March 1 are evaluated on a first-come, first-serve basis until all open positions are filled. Applications are online at www.him.kumc.edu. The health information management admissions committee reviews applications, considering academic performance, interpersonal written communication, and ethical standards.

Changes in health care require frequent curriculum content changes and course revisions. All prospective students should obtain advising from the health information office at KU Medical Center. The office establishes a file and informs students of changes. Additional advising is available at the Freshman-Sophomore Advising Center in Lawrence.

Bachelor of Science in Health Information Management Degree Requirements

This program requires two years of preparatory college course work (63 hours minimum) and two years of professional course work at the Medical Center. Program requirements and course offerings are subject to change. Prospective students should call the program office for the latest information.

Prerequisites. To complete the B.S. degree in four academic years, students must complete prerequisites before entering the program. Prerequisites include an introduction to biology, anatomy, and physiology courses. Additional prerequisites include composition, critical reading and writing, technical writing, speech (or an oral communication course), financial accounting, introduction to psychology, sociology, and 6 credit hours of humanities. For specific requirements, contact the admissions coordinator.

Degree candidates are not accepted until all these requirements have been fulfilled. Students are not considered for admission to the professional program until they have met prerequisites with an overall grade-point average of 2.5. Students who do not meet the overall grade-point average requirement but have outstanding averages in prerequisite courses are considered for committee review. No grade lower than 2.0 is accepted in any prerequisite course.

Professional Course Requirements. The professional curriculum is offered during the junior and senior years. A four-week management internship is re-

quired at the end of the senior spring semester. Students must maintain a 2.5 grade-point average in the professional courses to graduate, with no grade lower than a C in any course. The sequenced courses in this professional component are as follows:

Junior Year, Fall Semester (18 hours)	
HEIM 380 Principles of Health Care Management	4
HEIM 360 Record Documentation Systems	3
HEIM 330 Medical Terminology	3
HEIM 340 Introduction to Information Systems	3
HEIM 325 Pharmacology	2
HEIM 320 Legal Aspects of Health Care	3
Junior Year, Spring Semester (17 hours)	
HEIM 420 Statistics	3
HEIM 460 Data Classification Systems	3
HEIM 480 Human Resource Management	3
HEIM 415 Health Care Delivery Systems	2
HEIM 435 Fundamentals of Medicine	3
HEIM 525 Database Management for EHR	3
Senior Year, Fall Semester (16 hours)	
HEIM 540 Information System Concepts	3
HEIM 590 Knowledge Management	3
HEIM 510 Professional Practice Experience I	1
HEIM 580 Reimbursement	3
HEIM 567 Health Care Quality Controls	3
HEIM 560 Coding Systems	3
Senior Year, Spring Semester (15 hours)	
HEIM 640 Health Information Systems	3
HEIM 660 Outpatient Coding Systems	3
HEIM 675 Management Seminar	2
HEIM 604 Professional Practice Experience II	2
HEIM 665 Topics in Health Information Management	2
HEIM 680 Management Internship	3

For more information, see www.him.kumc.edu.

Fees. KU undergraduate tuition and fees apply.

Career Opportunities

Career opportunities exist in health care facilities, business organizations, industry, research, government agencies, and educational settings. Graduates are eligible to take the registry examination of the American Health Information Management Association. Passing this examination certifies the individual as a professional health information manager and permits the use of the credentials RHIA (Registered Health Information Administrator) after the name.

● Health Information Management Courses

HEIM 210 Introduction to Health Care (1). An introductory overview of the health care system in the United States. Includes information on the organizational structure of health care, who comprises the health care team, reimbursement, managed care, the importance of data quality, legal aspects of health care including privacy and security, and the computer-based patient record. Open to all students. LEC

HEIM 320 Legal Aspects of Health Care (3). This course is designed to introduce the student to fundamental concepts of the American legal system, to the process of legal change, and to the health care professional's potential legal interactions with patients, employees, law enforcement personnel, and governmental agencies. Topics include informed consent, malpractice liability, corporate negligence, and legal aspects of health information management. LEC

HEIM 325 Pharmacology (2). This introduction to pharmacology course is intended to provide the student with the background information necessary to practice within the field of Allied Health and Health Information Management. The course covers the fundamentals of pharmacology. The classification of drugs, the use of drug reference materials, and the mechanisms of therapeutic and adverse responses to drugs will be covered in the course. This course will also introduce the processes used for drug approval in the United States. Prerequisite: Instructors permission. LEC

HEIM 330 Medical Terminology (3). A study of the language of medicine including word construction, definition and use of terms related to various areas of medical science, hospital service, and the allied health specialties. LEC

HEIM 340 Introduction to Information Systems (3). Introduction to business applications including project management software applications such as VISIO and MS PROJEXTS and use of work processing applications (MS WORD), presentation applications (POWERPOINT), spreadsheets (EXCEL), and database applications (ACCESS) to an in-

termediate level. The student will also be instructed in searching online electronic databases such as CINAHL and MEDLINE using WebSPIRS or PubMed, the National Library of Medicine's free, web-based searching tool as well as using the Internet as an information resource. LEC

HEIM 360 Record Documentation Systems (3). A course of study relating to the composition of the health record and the department responsible for its security, confidentiality, and availability. The student will compare and contrast the content and formats of the Health Record across the continuum of health care systems; understand the record management issues unique to the health care record; study retrieval systems, record access, record retention guidelines, and record storage options currently available, and trends to the future. LEC

HEIM 380 Principles of Health Care Management (4). This course will examine the unique characteristics of the health care industry in order to help the students identify (1) particular management skills needed as a business leader in the health care industry and (2) participate in the theory, skills, and applications for health care management through case studies and team projects. Prerequisite: An introductory course in accounting. LEC

HEIM 415 Health Care Delivery Systems (2). An introduction to the wide spectrum of health care delivery systems in which health information management professionals use their organizational and management skills. Special emphasis is placed on acute care, ambulatory care, home health, hospice care, long-term care, and managed care. The student will focus on how each delivery system is structured, what data sets are collected, the reimbursement schemes used, and how each system is integrated into the current delivery of health care in the United States. LEC

HEIM 420 Statistics (3). Emphasis is on the statistical analysis of health care data. Content includes hospital-based statistics, an introduction to basic epidemiological concepts, univariate and bivariate descriptive statistics, sampling distributions, statistical estimation, and hypothesis testing for one or two sample designs. Research design and methodology will be discussed. LEC

HEIM 435 Fundamentals of Medicine (3). An in-depth study of the fundamentals of medical science, medical essentials, and the language of medicine, signs, symptoms, and test findings of disease processes and the current therapy employed in the treatment of diseases presented through health care professionals' lectures in the clinical specialties. Prerequisite: Courses in Anatomy and Lab, Physiology and Lab, HEIM 325 Pharmacology, and HEIM 330 Medical Terminology or consent of the department chair. LEC

HEIM 460 Data Classification Systems (3). The study of medical vocabularies, classification systems, and nomenclatures used in health care. Students will develop an understanding and ability to recognize appropriate clinical classification systems and nomenclatures as to their uses and sources and apply that knowledge to health care information systems to promote effective and efficient communication for research and reimbursement. Student will explore Case Mix, Health Care Data Sets, government regulations impacting reimbursement, and specific classifications used by the various health care organizations. In addition, the roles of the HIM professional in Medical Staff credentialing and privileging, the physician office setting, Risk Management, and ethics will also be addressed. LEC

HEIM 480 Human Resource Management (3). The course provides students the opportunity to obtain the knowledge of human resources management skills. The course will study the people within various business organizations and their training, development, retention, motivation, and legal rights within the rapidly changing business and health care sectors. Prerequisite: HEIM 380 Principles in Health Care Management. LEC

HEIM 485 Independent Study in Health Information Management (1-10). The content will vary depending on material appropriate to students. May be repeated for additional credit utilizing a variety of projects and special assignments. Prerequisite: Permission of program director. FLD

HEIM 510 Professional Practice Experience I (1). Through supervised learning situations, students are given opportunities to visit different types of health care facilities in the area. These opportunities vary from year-to-year based upon availability. Opportunities might include (but not be limited to) developing competence while practicing a specific medical record procedure in an actual HIM department, exploring nontraditional HIM career roles, or visiting with and interviewing a long-term care, behavioral health, rehabilitation, or managed care HIM department manager. Prerequisite: HEIM 415 and HEIM 360. LEC

HEIM 525 Database Management for EHR (3). This course is designed to help students understand databases and database management systems. Students will learn to model and understand database design, in conjunction with learning methods to structure data as records, tables, or objects. Students will also learn how query languages are used for searching, sorting, reporting, and other "decision support" activities to best utilize the available data. Along with acquiring knowledge fundamental to management of the electronic health record (EHR), students will develop general technical knowledge to become capable health information professionals. LEC

KU Medical Center's W.C. Hartley Family Center offers services to families whose infants and toddlers are hearing-impaired.

The Timetable of Classes is online at www.timetable.ku.edu.

The myKUMC student portal gives KU Medical Center students access to online resources. Visit <https://my.kumc.edu>.

HEIM 540 Information System Concepts (3). This course is concerned with the organizational foundations of information systems and their emerging strategic role in health care. It provides an extensive introduction to real-world systems, focusing on how they are related to organizations and to management. The focus is on the larger environment in which systems operate and how systems relate to organizational design, strategy, and operations. In addition, the course should reinforce and expand the students' understanding of information systems, hardware, software, storage, and telecommunications. LEC

HEIM 560 Coding Systems (3). Concepts, specifics, and guidelines for coding diseases, operations, and other procedures in ICD-9-CM are demonstrated, along with practice and application through the use of coding cases and examples. Emphasis is placed on the importance of utilizing these coding guidelines and conventions along with the newly learned coding skills to achieve accurate and precise coding. The course will reinforce the importance of adequate coding policies and procedures in all health care facilities. Prerequisite: HEIM 435 or permission of the instructor. LEC

HEIM 567 Health Care Quality Controls (3). A study of the requirement of the JCAHO with a focus on health information standards, quality improvement methodologies, utilization review, and medical staff credentialing and privilege delineation. In addition, Utilization Management is approached from the theoretical and practical application of the SI/IS criteria for the hospital setting. Prerequisite: HEIM 415 and HEIM 460. LEC

HEIM 580 Reimbursement (3). This course will examine the complex financial systems within the health care industry. The student will gain a thorough knowledge of the diverse reimbursement methodologies utilized throughout the governmental and private insurance entities with application through: (1) case studies and (2) information systems integrated within the course work. Prerequisite: HEIM 460. LEC

HEIM 590 Knowledge Management (3). This course will look at the study of Knowledge Management as a way for an entity to generate, communicate, and leverage their intellectual assets. Topics will focus not only information technology applications but also the human side of knowledge creation, diffusion of innovation, and the application of knowledge. Classroom discussion will be supplemented with labs that encourage the student to manipulate data sets to derive various perspectives from the same information. Prerequisite: HEIM 340, HEIM 420, HEIM 490 and HEIM 540. LEC

HEIM 604 Professional Practice Experience II (2). Continuing to build on the experiences the student received in HEIM 510, supervised opportunities are given to the student for practicing both inpatient and outpatient coding skills, visiting and performing utilization review, and hearing of and practicing performance improvement in an area hospital. Student should be able to demonstrate understanding of the concepts about these areas presented in class while at these different sites. Prerequisite: HEIM 560, HEIM 567, and concurrently in HEIM 660. FLD

HEIM 640 Health Information Systems (3). The focus of this course is to provide a hands-on progression from the theories developed by HEIM 540 Information System Concepts. This course will require the student to apply this knowledge to real world problems with emphasis on Health Information Systems as well as Clinical Information Systems. Prerequisite: HEIM 425 and HEIM 540. LEC

HEIM 660 Outpatient Coding Systems (3). Introduction to Physicians' Current Procedural Terminology (CPT) for outpatient coding of medical and surgical procedures will be emphasized. Guidelines, conventions, and the unique characteristics of CPT will be explained along with extensive student practice and utilization of the CPT manual in coding outpatient services and procedures. Prerequisite: HEIM 430 or permission of the instructor. LEC

HEIM 661 Management Principles in Health Care (3). Introduction to basic principles of management and education and their application in the current health care environment. Course content includes: management, quality issues, budgeting, personnel issues, evaluation and application of management concepts; educational methodologies. Cross listed with CLS 661 and RESP 661. Prerequisite: Admission to the Health Information Management Program or consent of instructor. LEC

HEIM 665 Topics in Health Information Management (2). The course utilizes case studies and guest lecturers to address the latest developments in the management of health care information. Knowledge and skills learned will be applied to real-world problems. Students will research selected topics culminating in written and oral presentations. Prerequisite: HEIM 460 and HEIM 490. LEC

HEIM 670 Independent Study in Health Information Management (1-10). The content will vary depending on material appropriate to students. May be repeated for additional credit utilizing a variety of projects and special assignments. Prerequisite: Permission of the program director. LEC

HEIM 675 Management Seminar (2). This course will provide application of the health care and business management skills obtained from previous management courses within the Health Information

Management track. Student teams will be introduced to key management issues within the business sector through a series of seminar topics and presentations. The student teams will also participate in field projects within the local business sector. Prerequisite: Senior status and permission of the instructor. LEC

HEIM 680 Management Internship (3). A four week internship that provides the student with a management capstone experience in the activities and responsibilities of the health information administrator. Students are responsible for all costs to include: room, board, and transportation. Management sites are selected based on the experience and credentials of the student. Prerequisite: Successful completion of all HIM professional course work. LEC

Hearing and Speech

www.kumc.edu/allied/programs/hearing or
www.ku.edu/~splh/ipcd, (913) 588-5937

Hearing and speech offers a graduate program. See the University of Kansas *Graduate School Catalog*. For information about programs in the Department of Speech-Language-Hearing: Sciences and Disorders and SPLH courses, see the College of Liberal Arts and Sciences: Majors, Minors, and Courses chapter of this catalog.

● Audiology Course

AUD 550 Beginning Clinical Practice in Audiology (1-3). N Testing of hearing using pure tone air and bone conduction tests with normal and with hard of hearing individuals. (Same as SPLH 670.) Prerequisite: AUD 697 or concurrent. LAB

Music Therapy

For University of Kansas degree offerings in music therapy, see Music Education and Music Therapy in the School of Fine Arts chapter of this catalog.

Nurse Anesthesia

nanesthe@kumc.edu or www.na.kumc.edu

Nurse anesthesia offers a graduate program. See the University of Kansas *Graduate School Catalog*.

Occupational Therapy

Chair: Winifred W. Dunn, OTprogram@kumc.edu
KU Medical Center, 3033 Robinson Hall, Mail Stop 2003
3901 Rainbow Blvd., Kansas City, KS 66160
(913) 588-7195, TDD: (913) 588-7963, Admission
information, (913) 588-7174, www.ot.kumc.edu

Degrees offered: B.S. (Occupational Studies), M.O.T. (Master of Occupational Therapy), M.S. (See Graduate School Catalog), Ph.D. (Therapeutic Science)

Occupational Therapy is an entry-level master's degree program. However, a Bachelor of Science in Occupational Studies is earned after completion of the first year of the three-year entry-level master's program. Both undergraduate and graduate courses for the entry-level M.O.T. degree are outlined below.

The Master of Occupational Therapy is an entry-level professional degree. Occupational therapists use occupation (i.e., purposeful activity that is meaningful to the person and is aimed at achieving a goal) to support people to develop or regain skills they need to learn, play, earn a living, and take care of themselves and others. The occupational therapist provides services to persons of all ages who want and need to participate as active members of society, but for whom physical, developmental, cognitive, or emotional issues interfere. Occupational therapists also

provide services to well populations, communities, and individuals to facilitate maximum health and quality of life and to prevent injury and disability. Occupational therapy maximizes the quality of life for the individual, the family, and caregivers and keeps health care costs down. Occupational therapists are employed in schools, mental health facilities, hospitals, rehabilitation centers, home health agencies, government and community agencies, private practices, and industry. They may provide direct intervention services; act as consultants, administrators, researchers; teach at a college or university; or provide any combination of these.

The program is accredited by the Accreditation Council for Occupational Therapy Education, 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220, (301) 652-AOTA. Graduates may sit for the national certification examination for occupational therapists administered by the National Board for Certification in Occupational Therapy. After completion of this examination, the individual is an Occupational Therapist, Registered. Most states require licensure to practice. Initial state licensure is based on the successful completion of the NBCOT certification examination.

Admission

Students are eligible for admission after completing a minimum of 90 credit hours of preparatory course work, which may be taken on the Lawrence campus or at another university; up to 64 hours can be taken at a community college. Students must earn a minimum grade-point average of 3.0 on a 4.0 scale in prerequisites. Contact the OT education program office at KU Medical Center for information on other eligibility requirements and for current information.

Eligible students should begin the application process by submitting the School of Allied Health application and fee on or before December 15. Complete the application process by submitting other application forms (available from the OT office) and two official college transcripts on or before February 1. If accepted, the student begins the three-year program in the summer at KU Medical Center.

An early application/early acceptance option is available. Contact the department or visit www.ot.kumc.edu for information.

The occupational therapy admissions committee reviews applications. Students who meet all eligibility criteria by the set deadlines are invited to the Medical Center to complete interviews and writing samples. Selection is based on the applicant's strength in eligibility criteria as well as on performance in the interview and writing sample.

Students for whom English is a second language should contact the department for additional information about scores on the Test of English as a Foreign Language or the Lawrence campus Applied English Center's English Language Proficiency Test or both.

All prospective students should obtain advising from the OT education program office at the Medical Center or should schedule an appointment through the Freshman-Sophomore Advising Center to meet with an OT adviser on the Lawrence campus.

An introductory course, OCH 101, open to all students, is offered on the Lawrence campus to acquaint students with the profession.

Master of Occupational Therapy Degree Requirements

The M.O.T. is a three-year, full-time program starting each summer session. If an interruption in the program occurs for any reason, all requirements must be completed within four and a half years of the start date.

During the first year, students enroll in undergraduate courses focusing on occupational studies. Students who successfully complete this course work earn a B.S. in Occupational Studies. During the second and third years, students take graduate-level courses that lead to the M.O.T. Completion of both levels allows the individual to sit for the national certification examination. Courses include basic science, occupational therapy theory and application, clinical reasoning, and practica. The student must complete a research project carried out with a group of students in collaboration with a faculty mentor. Students must complete

- 90 credit hours of prerequisite course work.
- 39 hours of undergraduate academic courses and part-time practica in the occupational therapy department.
- 44-51 graduate hours in occupational therapy courses and fieldwork. The academic portion of the program is punctuated with full-time Level II fieldwork experiences, giving students ample opportunity to integrate practical experience with classroom learning.
- 12 hours of Fieldwork Level II.

Fieldwork Level II. FWII is a vital part of an occupational therapy education and a degree requirement. Courses are full-time practicum experiences carried out in service delivery settings. Students take FWII during the Spring 2a and Fall 3b semesters. An optional FWII experience may be scheduled during the Fall 3a semester. FWII may be scheduled and arranged only through the academic fieldwork coordinator or the fieldwork assistant. Students are responsible for transportation to and from fieldwork centers, living arrangements and expenses, tuition and fees for 12 to 18 credit hours, and any other expenses.

Typical Course Sequence

Summer 1 (9 credit hours)	
OCH 388 Human Anatomy	6
OCH 395 Orientation to the Occupational Therapy Profession	3
Fall 1 (16 credit hours)	
OCH 401 Theory and Practice in Occupational Therapy	2
OCH 415 Communication and Professional Relations	2
OCH 422 Analysis and Adaptation of Occupations I	4
OCH 430 Practicum I	2
OCH 435 Lifespan Development from an Occupational Perspective	4
OCH 455 Neuroscience Analysis of Occupational Performance	3
Spring 1 (14 credit hours)	
OCH 445 Contexts of Occupation	2
OCH 462 Physical Considerations in Facilitating Occupational Performance	3
OCH 468 Facilitating Physical Performance Lab	1
OCH 470 Practicum II	1
OCH 472 Psychiatric Considerations in Facilitating Occupational Performance	3
OCH 482 Analysis and Adaptation of Occupations II	2
OCH 490 Evaluation and Assessment of Occupational Performance	2
Fall 2 (14 credit hours)	
OCH 704 Planning and Intervention in Occupational Therapy	2
OCH 710 Service Management: Delivery Systems	1
OCH 720 Occupational Therapy Practice Models	7
OCH 730 Practicum III	2
OCH 783 Evidence-based Practice	2
Spring 2a (6 credit hours—January through March)	
OCH 770 Level II Fieldwork, Part 1	6
Spring 2b (6-7 credit hours—April and May)	
OCH 715 Supervision, Team Relations, and Management Communication	1
OCH 725 The Research Process	2
OCH 738 Special Topics in Practice	1-2
OCH 750 Case-based Clinical Reasoning	2

Fall 3 (8-14 credit hours)	
OCTH 776 Population-based Health Care	2
<i>Fall 3a</i> (6 credit hours—July through September)	
OCTH 780 Elective Level II Fieldwork, Special Topics (optional) ...	6
<i>Fall 3b</i> (6 credit hours—October through December)	
OCTH 775 Level II Fieldwork, Part 2	6
Spring 3 (10 credit hours)	
OCTH 727 Professional and Technical Writing	2
OCTH 755 Issues and Trends Seminar	1
OCTH 760 Professional Development and Leadership in Service Management	3
OCTH 765 Family and Community Service Systems	2
OCTH 790 Research Practicum	2

● Occupational Therapy Courses

OCTH 101 Introduction to Occupational Therapy (1). Survey of the profession of occupational therapy. Includes information on academic and professional requirements, career opportunities, general description, and history of the profession. Open to all students. LEC

OCTH 388 Human Anatomy (6). Lectures and demonstrations of models and dissected material covering the most important features of gross anatomy including detailed study of bones, muscles, blood vessels, and peripheral nerves. Emphasis on functional anatomy of the extremities, head, neck, and back. Assigned dissections of the human cadaver is accomplished by each student. LEC

OCTH 395 Orientation to the Occupational Therapy Profession (3). Overview of the KUMC curriculum and philosophy of the occupational therapy profession; structure and function of the national, state, and local professional associations and regulating bodies. Introductory concepts of the Ecology of Human Performance Framework and the occupational therapy process. LEC

OCTH 401 Theory and Practice in Occupational Therapy (2). Foundation concepts of the profession, including the role of occupation in the development of occupational competence, and self-identity, maintenance of health and well-being, and adaptation to life-altering circumstances. Introduction to clinical reasoning and application of clinical reasoning, and classical and contemporary occupational therapy conceptual frameworks in the occupational therapy process. Interrelationship of theory, research and practice. LEC

OCTH 415 Communication and Professional Relations (1). This course provides laboratory instruction and selected exploratory experiences to develop effective professional communication skills and to facilitate professional growth through self-awareness. An awareness of group process is developed through self-reflection, leadership activities and group tasks. The importance of communication to artful practice is stressed and opportunities to practice effective communication occur in a group setting. LAB

OCTH 422 Analysis and Adaptation of Occupations I (4). This course focuses on the analysis of occupations and person variables that affect performance in daily life. LEC

OCTH 430 Practicum I (2). Students will use clinical reasoning skills to analyze a person's performance as they participate in work, leisure, and self care activities in natural environments. Professional behavior is emphasized. LEC

OCTH 435 Lifespan Development from an Occupational Perspective (4). Analysis of occupational roles and performance as it relates to human development from conception through old age and death. Students will develop an understanding of how cognitive, psychosocial and physical aspects of the person affect function across the lifespan. Supports for occupational performance as well as disruptions to performance and adaptations to disabilities will be discussed within the context of age and culture. LEC

OCTH 445 Contexts of Occupation (2). This course will encourage students to view individuals as existing within a complex contextual environment, with occupational performance resulting from a dynamic interaction of personal and contextual factors. Course context is conveyed through didactic lectures, guest speakers, group discussions, and case presentations to identify appropriate application of these basic concepts in real life situations. Formative development of clinical reasoning abilities will incorporate context variables in intervention planning. LEC

OCTH 455 Neuroscience Analysis of Occupational Performance (3). Principles of basic and applied neurology are introduced. Functions of the central, peripheral, and autonomic nervous systems; sensory input, central processing, and output mechanisms and how systems interact to produce appropriate responsiveness to environmental demands are discussed. Students appraise human behavior in relation to function and dysfunction of the nervous system, both in recognizing potential behavioral signs when a specific neurological site is presented, and in hypothesizing about neurological involvement when given a description of an individual with a deficit. Common central nervous system disorders seen by occupational therapists will be discussed. LEC

OCTH 462 Physical Considerations in Facilitating Occupational Performance (3). This course examines the impact of selected physical conditions on person variables and occupational performance. An understanding of injury and disease processes is paired with the occupational therapy assessment and intervention methods appropriate to the problem. LEC

OCTH 468 Facilitating Physical Performance Lab (1). This lab course introduces the student to preparatory methods used by occupational therapists to facilitate performance in daily life activities. LEC

OCTH 470 Practicum II (1). Selected field experiences in a variety of contexts and service provision models where occupational therapy is provided to persons with disabilities. Students will participate in service provision to individuals/families with occupational therapy mentors and other service providers. Use of critical thinking and problem solving are required in reflecting on experiences. LEC

OCTH 472 Psychiatric Considerations in Facilitating Occupational Performance (3). An overview of psychiatric disorders and their impact on person variables and occupational performance is provided along with general occupational therapy approaches to these disorders. Includes DSM classifications, psychotropic drugs, behavioral interventions, and an appreciation for the experience of the person with a mental illness. LEC

OCTH 482 Analysis and Adaptation of Occupations II (2). This course focuses on adapting and modifying occupations and activities to meet variations in performance skill and person abilities (body functions/structures). An understanding of occupation as a therapeutic medium and the appropriate selection of intervention strategies will be emphasized. LEC

OCTH 490 Evaluation and Assessment of Occupational Performance (2). This course provides an overview of the occupational therapy evaluation process. Selection, interpretation, and documentation of assessments will be examined. Assessment of occupational performance across the lifespan will be addressed and will include standardized, non-standardized assessments within a person centered and contextually relevant approach. LEC

OCTH 680 Special Projects (1-6). An elective course to allow students to pursue areas of special interest under direction of faculty of his or her choice. Investigation of special issues relevant to an aspect of occupational therapy practice will include study of pertinent practice factors. Student will complete special projects such as oral presentation, written paper or case analyses. May be repeated for credit. Prerequisite: Permission of the department. IND

OCTH 704 Planning and Intervention in Occupational Therapy (2).

OCTH 710 Service Management: Delivery Systems (1).

OCTH 715 Supervision, Team Relations, and Management Communication (1).

OCTH 720 Occupational Therapy Practice Models (7).

OCTH 725 The Research Process (1).

OCTH 727 Professional and Technical Writing (2).

OCTH 730 Practicum III (2).

OCTH 738 Special Topics in Practice (1-2).

OCTH 750 Case-based Clinical Reasoning (2).

OCTH 755 Issues and Trends Seminar (1).

OCTH 756 Interdisciplinary Wellness Promotion for People with Psychiatric Disabilities (2).

OCTH 760 Professional Development and Leadership in Service Management (3).

OCTH 765 Family and Community Service Systems (2).

OCTH 770 Level II Fieldwork, Part 1 (6).

OCTH 774 Promoting Wellness: Community Experience with People with Psychiatric Disabilities (1).

OCTH 775 Level II Fieldwork, Part 2 (6).

OCTH 776 Population-based Health Care (2).

OCTH 780 Elective Level II Fieldwork (3-6).

OCTH 783 Evidence-based Practice (2).

OCTH 790 Research Practicum (2).

Physical Therapy and Rehabilitation Sciences

ptadmissions@kumc.edu or www.pt.rs.kumc.edu

The department offers an entry-level Doctor of Physical Therapy (D.P.T.) degree. The department also offers a Ph.D. in Rehabilitation Sciences and a joint D.P.T./Ph.D. degree. See KU's *Graduate School Catalog*.

Students may be admitted to the Department of Occupational Therapy as seniors or as transfer students.

KU's occupational therapy program tied for fourth in the nation in the 2006 U.S. News "America's Best Graduate Schools."

The Master of Occupational Therapy is an entry-level professional degree. During the first year, students earn a B.S. in Occupational Studies. During the second and third years, students take graduate courses that lead to the M.O.T.

Respiratory Care

Chair: Barbara Ludwig, respiratory@kumc.edu
 KU Medical Center, 4006 Delp Hall, Mail Stop 1013
 3901 Rainbow Blvd., Kansas City, KS 66160
 (913) 588-4630, TDD: (913) 588-7963
www.respiratorycare.kumc.edu

Degree offered: B.S.

The respiratory care practitioner treats patients with disorders affecting the cardiopulmonary system. These include asthma, emphysema, pneumonia, heart disease, shock, and trauma. Patients range in age from newborns to the elderly. In addition to treatment responsibilities, the respiratory care practitioner is actively involved in the diagnostic testing of infants, children, and adults with varying medical problems. The practitioner may work in rehabilitation, preventive care, subacute long-term care, research, management, and education. Using sophisticated medical and monitoring equipment, the therapist is a vital partner in the modern health care team.

Applicants are expected to have completed at least 64 to 68 prerequisite credit hours at an accredited college or university before admission. This program provides an organized learning experience through which each student may acquire an in-depth understanding of and proficiency in advanced concepts of clinical respiratory care and the fundamentals of allied health education and management. During the senior year, the student specializes in one area of concentration: pulmonary rehabilitation, neonatology, adult critical care, management, education, cardiopulmonary diagnostics, sleep medicine, and hyperbaric medicine.

Bachelor of Science in Respiratory Care Degree Requirements

This program requires two years of prerequisite course work on the Lawrence campus or at a community college and two years of professional courses at the KU Medical Center. To obtain a bachelor's degree from KU, a student must earn the last 30 hours of credit for the degree by resident study. Transfer students should be aware that all transfer courses for which they have requested credit must be equivalent to courses required at KU, or additional course work will be required. All other degree requirements must be fulfilled.

First- and Second-year Preparation. Students should contact the respiratory care admissions coordinator at KU Medical Center during their first or second years for advising and admission information. The first two years must include the following courses:

English (6 hours)	
ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
Oral Communication (3 hours)	
COMS 130 Speaker-Audience Communication (3) or	
COMS 150 Personal Communication (3)	3
Mathematics (6 hours)	
MATH 101 Algebra (or higher)	3
MATH 365 Elementary Statistics	3
Microbiology (5 hours)	
BIOL 200 Basic Microbiology	3
BIOL 203 Introductory Microbiology Laboratory	2
Chemistry (5 hours)	
CHEM 125 College Chemistry	5
Biology (14-15 hours)	
BIOL 150 Principles of Molecular and Cellular Biology	4

Either BIOL 440 Advanced Human Anatomy (6) or	
BIOL 240 Fundamentals of Human Anatomy (3) and	
BIOL 241 Human Anatomy Observation Laboratory (2) or	
BIOL 242 Human Anatomy Dissection Laboratory (3)	5-6
BIOL 246 Principles of Human Physiology	3
BIOL 247 Principles of Human Physiology Laboratory	2
Physics (3 hours)	
PHSX 111 Introductory Physics	3
Health, Sport, and Exercise Sciences (2 hours)	
HSES 248 First Aid (or other courses as approved by	
respiratory care adviser)	2
Suggested Science and Mathematics Electives (3-5 hours)	
Any of the following:	3-5
ABSC 160 Introduction to Child Behavior and Development (3)	
ANTH 304 Fundamentals of Physical Anthropology (3-4)	
BIOL 152 Principles of Organismal Biology (4)	
BIOL 352 Heredity and Society (3)	
MATH 115 Calculus I (3)	
MATH 105 Introduction to Topics in Mathematics (3)	
General Electives (18 hours). Electives must include the following distribution:	
Humanities elective	3
Ethics elective (PHIL 160, PHIL 365, PHIL 370)	3
Fine arts elective	3
Social or behavioral science elective	3
Other electives (ENGL 203, ENGL 359, ENGL 360, ENGL 362) ...	6

Students must complete 64 to 68 prerequisite hours. The following sequence is suggested:

First Year

First Semester (16 hours)	
ENGL 101 Composition	3
BIOL 150 Principles of Molecular and Cellular Biology	4
MATH 101 Algebra	3
Social or behavioral science elective	3
Fine arts elective	3
Second Semester (16 hours)	
ENGL 102 Critical Reading and Writing	3
COMS 130 Speaker-Audience Communication (3) or	
COMS 150 Personal Communication (3)	3
CHEM 125 College Chemistry	5
BIOL 200 Basic Microbiology	3
BIOL 203 Introductory Microbiology Laboratory	2

Second Year

First Semester (17 hours)	
BIOL 246 Principles of Human Physiology	3
BIOL 247 Principles of Human Physiology Laboratory	2
PHSX 111 Introductory Physics	3
MATH 365 Elementary Statistics	3
Humanities elective	3
² Elective	3
Second Semester (16-19 hours)	
Either BIOL 440 Advanced Human Anatomy (6) or	
BIOL 240 Fundamentals of Human Anatomy (3) and	
BIOL 241 Human Anatomy Observation Laboratory (2) or	
BIOL 242 Human Anatomy Dissection Laboratory (3)	5-6
HSES 248 First Aid	2
¹ Elective	3
² Science and mathematics elective	3-5
³ Ethics elective	3

¹It is recommended that a third English composition course (ENGL 203, ENGL 359, ENGL 360, or ENGL 362) be included as an elective.

²Suggested science and mathematics electives:

ABSC 160 Introduction to Child Behavior and Development (3)
ANTH 304 Fundamentals of Physical Anthropology (3-4)
BIOL 152 Principles of Organismal Biology (4)
BIOL 352 Heredity and Society (3)
MATH 115 Calculus (3)
MATH 105 Introduction to Topics in Mathematics (3)

³Suggested ethics courses:

PHIL 160 Introduction to Ethics (3)
PHIL 365 Moral Issues in the Professions (3)
PHIL 370 Moral Issues in Medicine (3)

Admission to the Respiratory Care Program. Students should submit applications by February 15 for consideration for entry in the next fall session. The program limits the number of students accepted each year; meeting the February 15 deadline is strongly encouraged. Students who submit applications after

February 15 are evaluated on a first-come, first-serve basis until all open positions are filled.

Admission Requirements. The candidate should have a 2.5 grade-point average with no grades lower than C and have completed all prerequisites. Candidates for whom English is a second language must score 570 or higher on the Test of English as a Foreign Language examination, with scores of 57 or higher on each part. Good physical health and mental health are essential. Minor physical handicaps are not considered deterrents. The faculty reserves the option of restricting admission of candidates with handicaps that may affect ability to deliver safe and effective patient care. Consistent with KU policies and regulations, physical examinations are required before registration. The admissions committee may request a personal interview with the applicant.

Graduates of associate degree respiratory care programs are eligible to apply for advanced standing as seniors upon completion of all prerequisites.

Junior/Senior Years. The junior and senior years require two full years of study. After the junior year, students receive a certificate that enables them to apply to take national credentialing examinations.

The last two years must include the following courses, taken in a required sequence:

RESP 303 Introduction to Respiratory Care Procedures	5.0
RESP 318 Pulmonary Pathology	3.0
HEIM 325 Pharmacology	2.0
HEIM 330 Medical Terminology	3.0
RESP 310 Clinical Pharmacology II	1.0
RESP 311 Clinical Pharmacology III	1.0
RESP 325 Clinical Process	2.0
RESP 330 Cardiopulmonary Physiology	4.0
RESP 340 Mechanical Ventilators	5.0
RESP 350 Clinical Application I	2.0
RESP 355 Clinical Application II	2.0
RESP 375 Clinical Application III	3.0-5.0
RESP 345 Introduction to Critical Care I	1.0
RESP 365 Introduction to Critical Care II	1.0
RESP 385 Introduction to Critical Care III	0.5
RESP 395 Introduction to Critical Care IV	1.5
RESP 390 Pulmonary Function	2.0
RESP 400 Advanced Critical Care	5.0
RESP 401 Neonatal Respiratory Care	4.0
RESP 402 Pulmonary Rehabilitation	3.0
RESP 405 Ethics, Law, and Health Care	2.0
RESP 425 Advanced Critical Care Procedures	2.0
RESP 490 Special Studies or Projects in Respiratory Care (elective, not necessary for a degree)	1.0-9.0
RESP 661 Management Principles in Health Care	3.0
RESP 662 Education Principles in Health Care	2.0
RESP 663 Scientific Investigation Part I	1.0
RESP 664 Scientific Investigation Part II	1.0
RESP 665 Scientific Investigation Part III	1.0
RESP 667 Registry Review	2.0
RESP 670 Clinical Specialty Practicum: Hyperbaric Oxygen Therapy, Pulmonary Function Laboratory, Sleep Studies Laboratory, Critical Care, Pulmonary Rehabilitation, or Neonatal (10) or <i>Online students</i> take RESP 671 Clinical Specialty Projects I (5) and RESP 672 Clinical Specialty Projects II (5)	10.0

All students must pass an advanced cardiac life support providers course before graduation.

Fees. KU undergraduate tuition and fees apply to prerequisite semesters. KU Medical Center undergraduate tuition and fees apply to professional semesters.

Professional Credentialing

Graduates are eligible to apply for credentials through the National Board for Respiratory Care by taking three examinations. After December 15 of the senior year, students are eligible for the entry-level examination. Passing it confers on the student the

title Certified Respiratory Therapist (CRT). After passing the next two examinations, the graduate is designated a registered respiratory therapist and may use RRT after his or her name.

● **Respiratory Care Courses**

RESP 303 Introduction to Respiratory Care Procedures (5). An introductory course designed to acquaint the student with the fundamental theory, procedures, and equipment used in respiratory therapy. Emphasis is placed on understanding application of equipment and procedures to the patient, and the respiratory therapy treatment of patients requiring non-continuous ventilatory assistance. This course introduces such topics as cardiopulmonary resuscitation, broncho-pulmonary hygiene, airway care, oxygen therapy, and cleaning and sterilization of equipment. Prerequisite: Concurrent enrollment in RESP 318 and RESP 325. LEC

RESP 310 Clinical Pharmacology II (1). The student will learn about adrenergic and parasympatholytic bronchodilators, corticosteroids, mucus-controlling drugs, surfactant agents, antitussives, and the anti-infective drugs used for the treatment of respiratory disorder. LEC

RESP 311 Clinical Pharmacology III (1). Content of this course includes neuromuscular blocking agents, cardiac agents, diuretics, anti-hypertensives, and central nervous system drugs. LEC

RESP 318 Pulmonary Pathology (3). A course consisting of lecture and group discussion designed to introduce the student to pulmonary pathology. Special emphasis is placed on the etiology, pathophysiology, and treatment of pulmonary diseases. This course includes such topics as signs and symptoms of lung disease, chronic obstructive pulmonary diseases, pleural and mycotic diseases. Prerequisite/Corequisite: RESP 303, RESP 325, RESP 330, or permission of instructor. LEC

RESP 325 Clinical Process (2). This course serves to introduce the beginning respiratory therapy student to the clinical environment. The student spends eight hours per week participating in either a clinically-oriented workshop or observing the application of respiratory therapy theory in the clinical setting. Prerequisite/Corequisite: RESP 303 and RESP 319. FLD

RESP 330 Cardiopulmonary Physiology (4). Designed to introduce the student to the basics of physiology of the cardiovascular and pulmonary systems. This course contains such topics as regulation of respiration and pH homeostasis, ventilation and perfusion relationships, and hemodynamics of the cardiovascular system. LEC

RESP 340 Mechanical Ventilators (5). This course contains such topics as arterial puncture, classification of mechanical ventilators and adjunct devices, and their application to the patient. Four hours of lecture/discussion and a 3 hour weekly laboratory acquainting the student with the rationale for continuous mechanical ventilation and the basic operation of adult, pediatric and neonatal mechanical ventilators. Emphasis is placed on the selection of appropriate equipment and assessment of its effect on the patient. Prerequisite: RESP 303, RESP 318, RESP 325 and RESP 330. LAB

RESP 345 Introduction to Critical Care I (1). Designed to introduce the student to the fundamentals of critical care concept such as cardiac arrhythmias, fluid and electrolyte abnormalities, and hemodynamic monitoring. These concepts are the basis of understanding problems associated with the critically ill. Prerequisite: RESP 319 and RESP 330. LEC

RESP 350 Clinical Application I (2). This course provides the intermediate respiratory therapy student with opportunities to practice basic respiratory therapy procedures. Emphasis placed on performance of respiratory therapy procedures and application of equipment. This course emphasizes such topics as oxygen therapy, aerosol therapy, incentive spirometry, patient assessment, and IPPB therapy. The student will assume limited patient care responsibilities. Prerequisite: RESP 303, RESP 318, RESP 325, and RESP 330. FLD

RESP 355 Clinical Application II (2). This course provides the respiratory therapy student with an introduction to the critical care setting. The student will begin to apply the procedures and equipment most often utilized in the intensive care areas. Emphasis is placed on continuous mechanical ventilation, artificial airways, airway care, and bedside pulmonary function testing. The student will assume limited patient care responsibility in the critical care areas. Prerequisite: RESP 303, RESP 318, RESP 325, and RESP 330. FLD

RESP 365 Introduction to Critical Care II (1). Concepts of critical care in the area of shock and trauma including causes, pathophysiologic changes and treatment will be discussed. Emphasis is placed on understanding the effects of acute trauma on the cardiopulmonary system. Prerequisite: RESP 303, RESP 318, RESP 319 and RESP 330. LEC

RESP 375 Clinical Application III (3-5). This course provides the advanced respiratory therapy student with opportunities to refine procedural and evaluative skills in the critical care areas. The student will spend a minimum of twenty-four hours per week in the clinical setting. Emphasis is placed upon the students ability to evaluate the patients' clinical situation and recommend appropriate therapy modalities to the clinical supervisor. During this course the student will assume wideranging patient care responsibilities. Prerequisite: RESP 355. FLD

Some form of health insurance is required for students on the Medical Center campus.

For information about graduate programs in the School of Allied Health, see the University of Kansas Graduate School Catalog.

See the chart Requirements for Admission to Health Professional Programs, pages 228-229.

RESP 385 Introduction to Critical Care III (0.5). A study of selected medical problems and how they affect the pulmonary system with an emphasis of neuromuscular diseases. The student will understand the etiology, clinical manifestations, diagnosis and treatment of such diseases as myasthenia gravis, Guillain-Barre' syndrome, and amyotrophic lateral sclerosis. The student will also study disorders associated with sleep. Prerequisite: RESP 303, RESP 318, RESP 319, and RESP 330. LEC

RESP 390 Pulmonary Function (2). Lecture and laboratory introducing the student to basic pulmonary function procedures. This course allows the student to practice pulmonary function tests and interpret the results. Lecture and laboratory topics include such topics as the measurement of lung volumes and capacities, body plethysmography, blood gas analysis, and flow volume loops. Prerequisite: RESP 318, RESP 325, and RESP 330. LAB

RESP 395 Introduction to Critical Care IV (1.50). Study of common neonatal and pediatric disorders/diseases for the beginning respiratory care student. Lectures on basic fetal lung development, assessment of both the pediatric and neonatal patient and disorders/diseases such as respiratory distress syndrome, bronchopulmonary dysplasia, bronchiolitis, epiglottitis and croup, and other commonly seen problems. Prerequisite: RESP 303, RESP 318, RESP 319, and RESP 330. LEC

RESP 399 Generalist Practice (3). This course is designed to allow students the opportunity to improve and perfect skills acquired in the junior year clinical courses. Emphasis will be given to refining the students' abilities to assess patient status and administer appropriate therapy modalities. This course may also be used to assess respiratory therapy knowledge and skills of students transferring from other programs. Prerequisite: Permission of instructor. FLD

RESP 400 Advanced Critical Care (5). This course focus is on the advanced medical and respiratory care of the critically ill adult patient. Emphasis is placed on cardiopulmonary assessment and treatment of trauma post-surgical, cardiac and renal patients. Students enrolled in this course will concurrently receive instruction in advanced cardiac life-support. Prerequisite: Senior year standing or permission of instructor. LEC

RESP 401 Neonatal Respiratory Care (4). This course is designed to provide the student with an introductory knowledge of fetal and newborn cardiorespiratory anatomy, physiology, development, pathophysiology, and care. Prerequisite: Senior year standing or permission of instructor. LEC

RESP 402 Pulmonary Rehabilitation (3). This course focuses on the interdisciplinary approach to the rehabilitation of the adult pulmonary patient. Emphasis will be placed upon the multidisciplinary assessments, treatments, and therapeutic techniques that the pulmonary rehabilitation team provides. The course, in conjunction with a specialty practicum, is designed to prepare the respiratory therapist for practice in a rehabilitation specialty. Prerequisite: Senior year standing or permission of instructor. LEC

RESP 405 Ethics, Law, and Health Care (2). This course will provide a forum for discussion of current ethical, legal and professional issues. We will refer to historical and emerging controversies in health care and society that influence the patient-patient care giver relationship. The method of instruction will primarily be student presentation and classroom discussion of current issues. Prerequisite: Senior year standing. LEC

RESP 425 Advanced Critical Care Procedures (2). This course affords the senior respiratory care student with the opportunity to practice advanced evaluative and procedural skills in the intensive care setting. Emphasis is placed on quantitative assessment techniques, refinement of monitoring procedures, and interpretation of data. Prerequisite: RESP 375 or equivalent. LEC

RESP 490 Special Studies or Projects (1-9). This course involves individual study, research or projects in the field of respiratory care under instructor guidance. Written reports and periodic conferences are required. Content and unit credit will be determined by student-instructor conferences and/or departmental conferences. This course may be repeated for a maximum of nine credits. Prerequisite: Admission to the respiratory care program and consent of instructor. LEC

RESP 661 Management Principles in Health Care (3). An introduction to basic principles of management and their application in the current health care environment. Course content includes management theory, scope of management, quality issues, budgeting, personnel issues, evaluation and application of management concepts. Cross listed with HEIM 661 and CLS 661. Prerequisite: Senior year standing or permission of the instructor. LEC

RESP 662 Education Principles in Health Care (2). An introduction to basic principles of education and their application in the current health care environment. Information on course content includes: Course design, in-service education and patient education. The focus is on educational needs, instructional media and course quality improvement. LEC

RESP 663 Scientific Investigation Part I (1). This course is designed to provide the participant with an introduction to research skills. It will provide respiratory care practitioners with basic skills in understanding the criteria for developing research questions about their daily practice that can only be answered by conducting research. This course also discusses the types of research data and the structure of a research paper. LEC

RESP 664 Scientific Investigation Part II (1). This course is designed to teach the student how to read, interpret and analyze research reports. Prerequisite: Senior year standing and a course in statistics. LEC

RESP 665 Scientific Investigation Part III (1). The student will develop an independent research project with the aid of faculty adviser, and prepare and submit the final project prior to graduation. Prerequisite: Senior year standing and a course in statistics. LEC

RESP 667 Registry Review (2). This course involves individual student under instructor guidance. A series of practice exams are taken and discussed including a secured practice registry exam and clinical simulation exam. Prerequisite: Admission to the respiratory care program and consent of instructor. LEC

RESP 668 Introduction to Sleep Studies (1). This course introduces the basics in sleep medicine and polysomnography to prepare the student to assist to sleep studies. Prerequisite: Senior year standing and consent of instructor. LEC

RESP 670 Clinical Specialty Practicum (10). Provides the student with a capstone experience in the activities and responsibilities related to clinical processes in one of the specific advanced practice specialties: critical care, neonatal, pediatrics, pulmonary rehabilitation, pulmonary function, sleep, hyperbaric oxygen, management or education. Prerequisite: Permission of the instructor. SEM

RESP 671 Clinical Specialty Projects I (5). Designed to give the student the opportunity to develop clinically-related projects in the areas of quality improvement, health care organizational structures and current processes in patient management. Prerequisite: Permission of the instructor. SEM

RESP 672 Clinical Specialty Projects II (5). Designed to have the student demonstrate competency related to clinical processes in one of the specific advanced practice specialties: critical care, neonatal, pediatrics, pulmonary rehabilitation, pulmonary function, sleep, hyperbaric oxygen, management or education. Prerequisite: Permission of the instructor. SEM

Special Education

See the School of Education chapter of this catalog.

Certificate Programs

Diagnostic Cardiac Sonography

Program Directors: Mary Chivington, and William Hudson

KU Medical Center, G600 KU Hospital, Mail Stop 4023
3901 Rainbow Blvd., Kansas City, KS 66160

(913) 588-9690 or (913) 588-3970, fax: (913) 588-9772,
TDD: (913) 588-7963

www.alliedhealth.kumc.edu/programs/sonography

The diagnostic cardiac sonographer uses complex ultrasound equipment to perform echocardiographic procedures. Echocardiography is a highly valuable diagnostic modality for the evaluation of cardiac anatomy, function, and hemodynamics. It is the most commonly used imaging procedure for the diagnosis of heart disease. Diagnostic cardiac sonographers work under the direction of a cardiologist.

Admission Procedure. For an allied health application and information packet, contact the program through its Web site.

Admission Requirements

1. Bachelor of Science or Bachelor of Arts degree with an emphasis in science **or** registry or licensure in one of the following: radiography, nuclear medicine, nursing, or other two-year allied health certificate programs, **and**

2. Completion of the following college course work with a grade-point average of at least 2.5 on a 4.0 scale: algebra, chemistry, anatomy, and physiology.

3. College-level course work in physics, medical terminology, and English, speech, or composition is strongly recommended.

4. Applicants must have these prerequisites or the permission of the program directors to be admitted.

Program. This is a 21-month certificate program. The curriculum includes ultrasound physics and instrumentation and cardiac anatomy and physiology. It incorporates detailed, structured, and comprehensive course work and teaches the student to use independent judgment in the acquisition of diagnostic information. The student receives extensive interactive experience with cardiac sonographers and cardiologists in a laboratory accredited by the Intersocietal Commission for Accreditation of Echocardiography Laboratories. The student spends 24 to 32 hours a week in the cardiography department, dividing time between didactic course work and hands-on clinical applications.

Tuition and Fees. Students pay tuition, applicable fees, book costs, parking fees, and uniform costs.

Career Opportunities. Graduates are eligible to take the American Registry of Diagnostic Medical Sonographers examinations in Adult Echocardiography. Employment for cardiac sonographers is expected to grow faster than the average for all occupations through the year 2008, according to the American Society of Echocardiography Education Task Force, 2002.

● Diagnostic Cardiac Sonography Course

CSO 048 Diagnostic Cardiac Sonographer (0). The diagnostic cardiac sonographer uses complex ultrasound equipment to perform echocardiographic procedures. Echocardiography is highly valuable diagnostic modality for the evaluation of cardiac anatomy, function, and hemodynamics. It is the most commonly used imaging procedure for the diagnosis of heart disease. Diagnostic cardiac sonographers work under the direction of a cardiologist. Prerequisite: BS or BA with emphasis in science preferred OR registered or licensed in one of the following: radiography, nuclear medicine, nursing, ultrasound or other two-year allied health certificate programs AND completion of the following college-course work with a GPA of at least 2.5 on a 4. scale: algebra, chemistry, and anatomy and physiology. College-level course work in physics, medical terminology and English, speech or composition is strongly recommended. Applicants must have the prerequisites listed above or the permission of the program directors to be admitted to the program. LEC

Diagnostic Ultrasound Technology (General and Vascular)

Program Directors: Candace Spalding, and Vicky Martin, alliedhealth@kumc.edu
KU Medical Center, 2105 KU Hospital, Mail Stop 4032
3901 Rainbow Blvd., Kansas City, KS 66160
(913) 588-6802 or (913) 588-6861, fax: (913) 588-8393,
TDD: (913) 588-7963
www.alliedhealth.kumc.edu/programs/ultrasound

The sonographer, after advanced training, uses high-frequency sound waves for diagnostic purposes, under the direction of a radiologist.

Admission Procedure. For information and an application, contact a program director.

Admission Requirements. The applicant must be a Registered Radiologic Technologist with the American Registry of Radiologic Technologists (A.R.R.T.) or registry-eligible. A post-secondary cumulative grade-point average of at least 2.5 on a 4.0 scale is required, with additional credits in college algebra and communication skills.

Program. This is an 18-month accredited certificate program that prepares the student sonographer to use complex ultrasound equipment in a clinical setting. The student spends 40 hours a week in the Department of

Diagnostic Radiology, dividing the time between class and clinical application. Didactic studies include courses in medical law and ethics, introduction to sonography, ultrasound physics and instrumentation, abdomen, OB/GYN, small parts, neurosonology, vascular technology, and vascular physics and instrumentation.

Tuition and Fees. Students pay tuition and student center, student activity, and health service fees. Students also pay for books and uniforms and for health insurance, if applicable.

Career Opportunities. Graduates are candidates for the certification examinations of the American Registry of Diagnostic Medical Sonographers. Success in passing these examinations certifies the individual as a Registered Diagnostic Medical Sonographer and Registered Vascular Technologist and permits use of the designation RDMS and RVT after the name.

● Ultrasound Technology Course

UTEC 052 Diagnostic Ultrasound Technology (0). A one-year program open to certified radiologic technologists. The student completing the program is awarded a Certificate in Diagnostic Ultrasound Technology. LEC

Nuclear Medicine Technology

Program Director: Tina Crain, alliedhealth@kumc.edu
KU Medical Center, 2175 KU Hospital, Mail Stop 4032
3901 Rainbow Blvd., Kansas City, KS 66160
(913) 588-6858, fax: (913) 588-7899, TDD: (913) 588-7963
www.alliedhealth.kumc.edu/programs/nuclear_med

The nuclear medicine technologist, after advanced training, uses radionuclides and high-technical cameras and computers for diagnostic and therapeutic purposes, under the direction of a nuclear medicine physician or radiologist.

Admission Procedure. For information and an application, contact the program director.

Admission Requirements. Admission is open to registered or registry-eligible radiologic technologists, registered nurses, certified medical technologists, and persons with bachelor's degrees in allied health or medical sciences fields that include courses in anatomy, human physiology, medical terminology, chemistry, physics, English, algebra, oral communication, and introduction to computers.

Program. This is a 12-month certificate program that prepares technologists to inject radiopharmaceuticals and use high technical cameras and computers in a clinical setting. The student spends 40 hours a week in the Division of Nuclear Medicine dividing time between didactic course work and clinical applications.

Tuition and Fees. Students pay tuition and student center, student activity, health service, and uniform fees. Students pay for their books and health insurance.

Career Opportunities. Graduates are eligible to take the American Registry of Radiologic Technologists and the Nuclear Medicine Technology Certification Board examinations.

● Nuclear Medicine Technology Course

NMED 046 Nuclear Medicine Technology (0). A one year program open to Registry or Registry eligible Radiologic Technologists, Registered Nurses, Certified Medical Technologists or persons with a Bachelor's of a Health Related Field. The student is awarded with a Certificate in Nuclear Medicine Technology. LEC

For online information about programs in the School of Allied Health, see www.alliedhealth.kumc.edu.

Information in this catalog is subject to change. Visit the school's Web site for the latest updates.

Allied Health certificate programs are offered on the KU Medical Center campus in Kansas City, Kansas.

School of Architecture and Urban Design

John C. Gaunt, Dean
Marvin Hall, 1465 Jayhawk Blvd., Room 206,
Lawrence, KS 66045-7614, www.saud.ku.edu

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School of Architecture and Urban Design

John C. Gaunt, Dean
Michael Swann, Associate Dean
Marvin Hall, 1465 Jayhawk Blvd., Room 206
Lawrence, KS 66045-7614
archku@ku.edu or www.saud.ku.edu
Phone: (785) 864-4281, Fax: (785) 864-5393

Degrees offered: B.A. in Architectural Studies, M.Arch., M.A. in Architecture, M.U.P., Ph.D.
Other programs: B.S. in Architectural Engineering (with School of Engineering)

High school seniors and transfer students applying for admission to KU's accredited architecture program are no longer admitted to pursue a Bachelor of Architecture (B.Arch.) degree. Instead, students **are admitted directly into a five-year (10 semesters plus one summer) accredited Master of Architecture (M. Arch.) degree program.** Direct admission into the M.Arch began with all students admitted for fall 2006. Students who were admitted to the B.Arch. degree program have the option of completing that degree rather than the M. Arch.

The School of Architecture and Urban Design offers undergraduate and graduate programs for students interested in the study and improvement of the built environment. Programs leading to a professional Master of Architecture or a professional Bachelor of Science in Architectural Engineering are offered for entering first-year students. The B.A. in Architectural Studies is a pre-professional, liberal arts degree.

Graduate programs leading to the Master of Arts in Architecture, Master of Science in Architectural Engineering, Master of Urban Planning, or Ph.D. in Architecture are available for students pursuing advanced study.

All professional programs offered in the School of Architecture and Urban Design are fully accredited by the National Architectural Accrediting Board, the Accreditation Board for Engineering and Technology, or the American Institute of Planners.

According to the National Architectural Accrediting Board's policy statement: "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), 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 a 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."

The five-year Master of Architecture degree at KU consists of a single professional degree track, not a combination of a pre-professional undergraduate and professional graduate tracks, known at some schools as "4 plus 2" and "4 plus 3" programs. Instead, students at KU are admitted after high school to the complete five-year degree track.

The practice of architecture depends on the physical, social, and behavioral needs of society. As the complexity of society and the stresses on individuals increase, the architect and engineer must seek new and innovative responses. The programs in the School of Architecture and Urban Design at KU have been broadened and diversified to meet these needs.

Admission

First-year and transfer students may be admitted to the School of Architecture and Urban Design. The school admits up to 120 first-year students to the Master of Architecture degree program and the Bachelor of Science in Architectural Engineering degree program each fall semester. This number is based primarily on space constraints and secondarily on staff resources. The school also admits first-year and transfer students to the B.A. in Architectural Studies. Contact Michael Swann, Associate Dean, School of Architecture and Urban Design, the University of Kansas, Marvin Hall, 1465 Jayhawk Blvd., Room 206, Lawrence, KS 66045-7614, or send e-mail to archku@ku.edu. For undergraduate applications, write to the University of Kansas Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66045-7576, adm@ku.edu.

Applications

Applications for admission for the fall semester should be submitted during the student's senior year in high school. The application deadline is February 1, but students should apply to KU in the fall to ensure that their application is complete and ready for review by February 1. Completed applications are reviewed, and applicants are notified of their admission status. A complete application includes sixth-semester transcript, rank in class, and ACT scores. Applications received after February 1 are considered but are less likely to be accepted due to space limitations.

Photo, page 244:
A senior architecture student puts together a project in the school's B-Tech Yard.

Transfer students should apply by October 1 for the spring semester and by February 1 for summer and fall terms. Space limitations apply to transfer students. Transfer applications received after February 1 are likely to be denied for reasons not connected with the applicant's academic qualifications. The School of Architecture and Urban Design encourages applications from women and members of minority groups.

Kansas High School Students. Kansas high school students are encouraged to apply for admission if they rank in the upper 25 percent of their high school class and if they have the following preparation thresholds:

At the end of the sixth semester in high school, students should have completed three years of English, three years of mathematics including trigonometry, three years of a natural or physical science, two years of foreign language, and one year of history.

Kansas high school students who cannot fulfill these minimum thresholds at the end of the sixth semester are encouraged to delay application to determine if they can fulfill the thresholds in the seventh or eighth semester. At the end of the seventh semester, students should have completed three and a half years of English, three and a half years of mathematics, two years of physical or natural science, two years of foreign language, and one year of history.

Although students who do not meet these minimum thresholds may apply for admission to the School of Architecture and Urban Design, they are encouraged to apply to the College of Liberal Arts and Sciences or the School of Engineering (as undecided majors) for a preliminary year of study.

During the first semester of this preliminary year, students should complete MATH 105, MATH 106, or MATH 115 for the M.Arch. (or MATH 121 Calculus I for the B.S. in architectural engineering), ENGL 101 Composition, ARCH 103 Introduction to Architecture or ARCE 103 Introduction to Architectural Engineering, and 4 to 6 hours of electives. Students should have grade-point averages of at least 3.5 in these 15 to 17 hours. At the end of the first semester, students may reapply to the school for admission to the following fall class.

Other U.S. High School Students. Other applicants from the United States must rank in the top 15 percent of their high school class and are expected to have college preparatory training in high school, as outlined above for Kansas students.

Transfer Students. Transfer students may be admitted, if space is available, if they have grades of C or higher in one 3-hour mathematics course (equivalent to MATH 105, MATH 106, or MATH 115), one 4-hour physics course with laboratory (equivalent to PHSX 114), and have overall grade-point averages of 3.5.

International Students. The School of Architecture and Urban Design admits only exceptional students from foreign countries. Standards for admission are set according to the traditions and grading policies of those countries. In some countries, for example, the grade of A is almost never given while in other countries the A grade is more frequently seen. The number of students admitted depends on the space available on February 1.

Visit Our Web Site

The School of Architecture and Urban Design Web site, www.saud.ku.edu, has current information about the school. Visit the Web site for information about Architecture and Urban Design programs, facilities, services, resources, policies, and procedures.

Advising

In addition to general advising and academic assistance from appropriate KU offices, the school assigns individual advisers to each student. Advisers are available throughout the course of study by appointment, and students are expected to see their advisers at enrollment times. Students who plan to transfer into these programs should contact the associate dean at (785) 864-3167.

University Honors Program

The school encourages qualified students to participate in the University Honors Program. Students should be aware that the course load for the M.Arch. professional degree may make it difficult to participate in the College Honors Program. See University Honors Program in the College of Liberal Arts and Sciences: General Requirements chapter of this catalog.

Financial Aid, Awards, and Scholarships

The school has a limited number of scholarships for entering first-year students that are administered directly by the school. Additional awards and scholarships are available to students at all year levels.

All students who wish to be considered for KU financial aid or for the scholarships available to architecture and architectural engineering students must complete applications at the Office of Admissions and Scholarships and the Office of Student Financial Aid.

Ewart Memorial Traveling Fellowships

Each year, three or more sophomores receive Ewart scholarships to spend the third year at selected universities in Europe. Exchange programs are in place with Edinburgh College of Art in Edinburgh, Scotland, and the University of Dortmund and the University of Stuttgart, Germany. Each year, up to five students may be selected to spend the fall semester of the fourth year in Copenhagen through Denmark's International Study Program. The school also has summer programs in Western Europe and Latin America. The Ewart awards, established in memory of Donald P. Ewart, a former student, are based on scholarship, character, and achievement. Consult the School of Architecture and Urban Design or the Office of Study Abroad in Lippincott Hall for information.

Libraries and Research Facilities

Resource materials in Marvin Hall include the Donald E. and Mary Bole Hatch Reading Room and a collection of 90,000 slides. Almost half these images are available to students and faculty online through the school's digital image library. The Murphy Art and Architecture Library in Spencer Museum of Art contains more than 120 periodicals and 101,000 volumes.

High school seniors and transfer students may apply to be admitted directly into KU's five-year accredited Master of Architecture degree program. Direct admission into the M.Arch began with all students admitted for fall 2006.

The 2006 Fiske Guide to Colleges calls KU's School of Architecture and Urban Design a standout. The Guide says students give architecture programs rave reviews.

Regulations

For information about University of Kansas regulations, see the General Regulations chapter of this catalog.

Architecture Program

Chair: Donna Luckey
Marvin Hall, 1465 Jayhawk Blvd., Room 205
Lawrence, KS 66054-7614
(785) 864-4365, www.saud.ku.edu/arch/arch.htm

As a field of study, architecture is both an art and a science. As a method of practice, it is a complex, interdisciplinary, professional activity. The curriculum responds to these considerations by offering a series of overlapping sequences in professional and academic course work.

Master of Architecture

This professional program leads to the five-year M.Arch. degree. This degree is fully accredited by the NAAB and meets the certification requirements of the National Council of Architectural Registration Boards. Graduates of this program who complete three years of professional experience and successfully complete the individual state registration examinations may practice as licensed architects. Credit hours are distributed as follows:

Design/Synthesis: 61 credit hours

Architecture Support Courses: 58 credit hours

Architecture Electives: 12 credit hours

General Education Courses: 49 credit hours

Students must maintain a 2.0 grade-point average to remain in good standing and to graduate.

The core of the curriculum is a sequence of design studios composing one-third of the total degree requirements. Students complete sequences in graphics, structures, building construction, environmental technology, and architectural history. Course work in site planning, urban design, and professional practice completes the professional content.

In addition to professional courses, students are expected to complete course work in a variety of academic disciplines. Beyond mathematics, physics, and English, the student is expected to fulfill the General Education requirements of the M.Arch. These courses cover communication, Western civilization, fine arts, humanities, and the natural and social sciences.

Students undertake a summer program between their fourth and fifth years. This requirement gives students an experience completely different from their previous educational careers. This can be through an approved study abroad program or a practicum through a firm or organization working with the built environment. The 9-credit-hour summer session includes 3 credit hours that document the experience. Students who have already had a study abroad semester or summer must meet the total credit hours for the degree but can be excused from this summer requirement.

In the fifth year, students participate in a chosen professional option. These options are defined by faculty and student interests. They provide students the opportunity to focus in a particular area of interest that is one of the professional choices or areas of specialization available after graduation. These include,

but are not limited to, Community/Urban Design; Design-Build/Materiality; Design and Technology; Design Processes; and Building Design/Typology. A student in the Community/Urban Design option has the choice of taking all course work in the fifth year in the Kansas City Urban Design Studio, on the campus of the KU Medical Center in Kansas City, Kansas.

Master of Architecture Degree Requirements

Prescribed Curriculum. A total of 180 credit hours is required. Substitutions in the prescribed curriculum may be made only by petition to the appropriate committee.

First Year, Fall Semester (16 hours)	
ARCH 103 Introduction to Architecture	3
ARCH 100 Architectural Foundations I	4
ENGL 101 Composition	3
MATH 115 Calculus I, MATH 105, or MATH 106	3
General Education course	3
First Year, Spring Semester (16 hours)	
ARCH 101 Architectural Foundations II	6
ENGL 102 Critical Reading and Writing	3
PHSX 114 College Physics I	4
ARCH 104 Introduction to Architecture II	3
Second Year, Fall Semester (18 hours)	
ARCH 200 Architectural Foundations III	6
ARCH 105 Introduction to Architecture III	3
ARCH 360 Landscape Design and Site Planning	3
HWC 204 Western Civilization I	3
General Education course	3
Second Year, Spring Semester (18 hours)	
ARCH 201 Architectural Design II	6
ARCH 665 History of Urban Design	3
HWC 205 Western Civilization II	3
ARCH elective	3
HA 261 Introduction to Modern Art (3) or HA 564 European Art, 1900-1945 (3)	3
All first- and second-year courses must be completed with a grade-point average of 2.0 before the student is allowed to proceed to the third-year studio.	
Third Year, Fall Semester (19 hours)	
ARCH 300 Architectural Design III	6
ARCH 626 Building Technology I	3
ARCH 640 History of Architecture I: Ancient and Medieval	3
ARCH 620 Statics for Architects and ARCH 621 Strength of Materials for Architects	4
General Education course	3
Third Year, Spring Semester (18 hours)	
ARCH 301 Architectural Design IV	6
ARCH 627 Building Technology II	3
ARCH 641 History of Architecture II: Renaissance to Age of Reason	3
ARCH 624 Structural Systems for Architects	3
General Education course	3
Fourth Year, Fall Semester (18 hours)	
ARCH 400 Architectural Design V	6
ARCH 658 Programming and Pre-design Issues	3
ARCE 561 Building Mechanical Systems for Architects	3
ARCH course: Lighting, Acoustics, Power, Ventilation, and Daylighting	3
Architecture elective	3
Fourth Year, Spring Semester (18 hours)	
Comprehensive Studio	9
ARCH 552 Professional Practice	3
ARCH 701 Introduction to Graduate Studies	3
HA Asian course	3
Summer (9 hours, expected between fourth and fifth year)	
ARCH 690 Architecture Study Abroad (6) or ARCH 691 Architecture Practicum (6)	6
ARCH 692 Documentation	3
Fifth Year, Fall Semester (15 hours)	
ARCH course: Professional Options I	6
ARCH 740 Architecture History/Theory IV	3
General Education course	3
Architecture elective	3
Fifth Year, Spring Semester (15 hours)	
ARCH course: Professional Options II	6
General Education courses	6
Architecture elective	3

Complete listings of current course requirements for architecture majors are available in 205 Marvin Hall.

Students considering the B.A. degree in other areas as a double major should consult advisers in the College of Liberal Arts and Sciences. Other B.A. degrees may have different elective requirements for graduation.

Distribution Courses. Of the 180 credit hours required for the M.Arch. degree, 49 hours are General Education courses. This includes 36 credit hours in addition to the 13 credit hours required in English, mathematics, and physics in the first year. These 36 hours must be drawn from the following areas:

Oral Communication (3): COMS 130, COMS 230, or PHIL 148 or PHIL 310

Western Civilization (6): HWC 204 and HWC 205

Environmental and Social Sciences (6): EVRN 148 and GEOG 102
Natural Sciences (3): BIOL 100 or BIOL 116; GEOL 101, GEOL 104, or GEOL 121

Fine Arts (9): HA 261 or HA 564 (3); and HA 265, HA 266, HA 267, or HA 268 (3); and MUSC 336, or 3 credit hours of performance; or DANC 310 or DANC 340 (3 credit hours)

Electives: 9 credit hours outside of architecture

In addition to the five-year course of study outlined above, there is a 12-semester curriculum sequence that averages 15 credit hours per semester. It serves students interested in semester or yearlong study abroad opportunities or students who want to take more time to complete the program.

Because this program was recently approved, please check the School of Architecture and Urban Design Web site, www.saud.ku.edu, for the most recent details and course descriptions and numbers.

Portfolio Requirement. Each student must maintain a record of work in the graphics/studio sequence. This must be in the form of an 8 1/2" x 11" portfolio (exceptions to the required format may be approved by the faculty) and must include examples of at least one major project from each semester of the design sequence, starting with the graphics studios in the first year. It is recommended that all major projects be included in the portfolio as well as selected examples of work from support and elective courses such as building technology, construction documents, photography, etc. The portfolio is a prerequisite for advancement in the studio course sequence and may be requested by the studio critic on the first day of class.

Studio Grading Policy. Work evaluated as "satisfactory" is graded C. Work evaluated as "more than satisfactory" is graded B. Work evaluated as "exceptional" is graded A. Work evaluated as "less than satisfactory" is graded D. Work evaluated as "failing" is graded F. Information on the studio grade appeal procedure is available in the Architecture Program office.

If a student receives a grade of D in a design or graphics studio in any semester, he or she is placed on notice by the school, regardless of overall grade-point average. To be removed from this status, the student must perform satisfactory work in the next semester of design or graphics. If in any subsequent semester the student receives another grade of D, he or she must repeat that studio before advancing in the sequence. If the student receives a grade of D in two consecutive studios, he or she must repeat the entire design or graphics year in which the first D was given.

Computer Requirement. All third-year students and above in the Master of Architecture program must supply a computer for use in a digital studio. Students must follow a minimum hardware- and software-requirements checklist when they purchase a computer for use in design studio. The specifications for architectural studio computing can be found in the technology section of the school's Web site, www.saud.ku.edu.

Maximum and Minimum Enrollment. Approval of the program chair is required if a student wishes to enroll for more than 19 or fewer than 14 hours during fall or spring semesters or for more than 14 hours during the summer session. A student on probation may not enroll in more than 15 hours without approval from the program chair or the associate dean.

Substitution of Courses. A student who wishes to select certain courses not in the prescribed curriculum may petition through the chair and the program office. Petitions for substitution of courses are considered at any time except after the beginning of the student's last semester as an undergraduate.

Credit for ROTC Courses. Students may enter the Reserve Officers Training Corps to train for commissions as regular or reserve officers. An allowance of 6 hours of military science, aerospace studies, or naval science may be substituted for free electives in the M.Arch. program. A student who enters one of the ROTC programs but discontinues military training and does not receive a commission may not apply credits for ROTC courses toward a degree in architecture. If a student does not receive a commission because of circumstances beyond his or her control (such as a medical discharge), he or she may use ROTC credits as part of the requirements for the degree as indicated above.

Activity Courses. The School of Architecture and Urban Design does not accept physical education activity courses for fulfilling graduation requirements.

Studio Enrollment/Selection Process. KU's online enrollment system allows students in each year level to enroll in an order based on the number of college credit hours completed (then by grade-point average, then by age). To eliminate the disadvantage that this imposes on many students in the selection of their studio instructor and to prevent students from repeating the same instructor for design studio, the architecture program has developed alternative processes for studio enrollment, which are used as appropriate.

Joint M.Arch./B.S. Program in Architectural Engineering

This program is for students who have completed all requirements for the B.S. degree in architectural engineering. The final requirements of this program are available on the school's Web site or through architectural engineering, at www.ceae.ku.edu/arce.

Career Opportunities

The M.Arch. is a professional degree after which the following options are open to students.

1. Graduates may seek to refine and augment their professional capabilities through experience in an office under a licensed architect. Such additional experience qualifies the graduate for admission to the appropriate examination for licensing and practice as an architect or may precede admission to graduate school.

2. Qualified students may pursue graduate study in areas related to architecture and environmental design, such as urban planning, law, psychology, social welfare, public administration, or business.

Professional Registration and Licensing. Although state laws vary, professional registration as an architect in Kansas currently requires a combination of education and experience totaling eight years. Completion of the five-year professional degree at this school plus three years of satisfactory experience satisfies this requirement, qualifying the individual for admis-

sion to the registration examinations administered by individual states and the National Council of Architectural Registration Boards. Upon successful completion of these examinations, the applicant may use the title “architect” and may practice as an architect, either as an individual or as a licensed professional in an office performing professional services.

Bachelor of Arts in Architectural Studies

The School of Architecture and Urban Design offers a Bachelor of Arts in Architectural Studies degree. This program combines a liberal arts education with the study of the conceptual content of architecture. The curriculum meets requirements for a Bachelor of Arts degree as prescribed by the College of Liberal Arts and Sciences at KU. This four-year degree program requires a minimum of 124 credit hours. Students considering a B.A. degree in other areas as a double major with the B.A. in Architectural Studies should consult the College of Liberal Arts and Sciences for advising, as other B.A. degrees may have different elective requirements for graduation.

Students considering the B.A. in Architectural Studies must understand that this is not the professional degree for architecture practice. Graduates of the B.A. in Architectural Studies program may wish to enter the Professional M.Arch. program or to pursue advanced degrees in other disciplines.

Students who hold baccalaureate degrees and wish to pursue careers in architecture may apply to the 3.5-year track of the Professional Master of Architecture program. This program is open to students with previous design-related degrees as well as those with bachelor’s degrees in the humanities, sciences, or other academic disciplines. See the school’s Web site for a description of the 3.5-year track of the Professional M.Arch.

Requirements for the B.A. in Architectural Studies

A minimum of 124 hours is required, including 45 hours of junior/senior-level courses.

Liberal Arts and Sciences requirements	70
Electives in the School of Architecture and Urban Design	30
Electives in the student’s interest in outside departments	15

Core Requirements (9 hours)

ARCH 103 Introduction to Architecture	3
History/Theory courses in architecture	6

Suggested Undergraduate Curriculum

First Year, Fall Semester (17 hours)

ARCH 103 Introduction to Architecture	3
ENGL 101 Composition	3
MATH 115 Calculus I, MATH 105, or MATH 106	3
Foreign language	5
General education course	3

First Year, Spring Semester (15 hours)

ENGL 102 Critical Reading and Writing	3
PHSX 114 College Physics I (or a laboratory science)	4
Humanities elective	3
Foreign language	5

Second Year, Fall Semester (18 hours)

Architecture History/Theory course	3
ENGL (third-level English course)	3
HWC 204 Western Civilization I	3
Oral communication or logic course	3
Humanities elective	3
Foreign language	3

Second Year, Spring Semester (15 hours)

Architecture elective	3
HWC 205 Western Civilization II	3
Architecture History/Theory course	3
Foreign language	3
Interest elective	3

Third Year, Fall Semester (15 hours)

Architecture electives	6
Interest electives	6
Architecture History/Theory course	3

Third Year, Spring Semester (15 hours)

Architecture electives	9
Natural science or computer science	3
Humanities elective	3

Fourth Year, Fall Semester (15 hours)

Architecture electives	6
Social sciences electives	6
Natural science elective	3

Fourth Year, Spring Semester (15 hours)

Non-Western culture course	3
Architecture elective	3
Social sciences elective	3
Interest electives	6

● Architecture Courses

ARCH 100 Architectural Foundations I (4). An introductory design studio directed toward the development of spatial thinking and the skills necessary for the analysis and design of architectural space and form. This course is based on a series of exercises that include direct observation: drawing, analysis and representation of the surrounding world, and full-scale studies in the making of objects and the representation of object and space. Students are introduced to different descriptive and analytical media and techniques of representation to aid in the development of critical thought. These include freehand drawing, orthographic projection, paraline drawing, basic computer skills, and basic materials investigation. Prerequisite: Approval from the Dean of the School of Architecture and Urban Design. LAB

ARCH 101 Architectural Foundations II (6). A continuation of ARCH 100 with major emphasis on the design relationships among people, architectural space, and the environment. The course is based on a series of exercises leading to the understanding of architectural enclosure as mediating between people and the outside world. Issues of scale, light, proportion, rhythm, sequence, threshold, and enclosure are introduced in relation to the human body, as well as in relation to architectural form, environment, and social and psychological factors. Students will engage in drawing, perspective projection, model building, and basic computer graphics. Prerequisite: ARCH 100. LAB

ARCH 103 Introduction to Architecture (3). An introduction to the study and practice of architecture. This course aims at orienting the student to the various disciplinary facets which make up the total architectural curriculum as well as to the various professional roles which architects can be expected to perform. Architectural study is seen as both an art and a science, and architectural practice is seen as a complex, interdisciplinary professional activity. Presentations by guest lecturers are included. Discussions required for, and only open to, B.A. in Architectural Studies students. LEC

ARCH 104 Introduction to Architecture II (3). The course will elaborate on the material first presented in ARCH 103. An emphasis will be given to the formal principles used in the designed environment (landscapes, cities, and buildings) and their place in cultural history. Past, present, and emerging ideas of how the architect responds to physical and social contexts will be discussed. Formal languages from various eras and places will be studied with twentieth century architecture serving as the focus of this study. Prerequisite: ARCH 103. Co-requisite: ARCH 101 or permission of the Architecture Program Chair. LEC

ARCH 105 Introduction to Architecture III (3). The course advances empirical understanding of natural forces as they both shape and affect buildings, including gravity, wind, light, heat, sound, and fluids. Two class hours and one laboratory per week. This course emphasizes the development of conceptual thinking and problem solving skills through sensory-based demonstrations, lectures, and laboratory experimentation. The course will emphasize concepts of PHSX 114 as they relate to the built environment. Prerequisite: ARCH 104 and PHSX 114. Co-requisite: ARCH 200 or permission of the Architecture Program Chair. LEC

ARCH 113 Architectural Graphics I (3). A course in basic drawing and model building for architectural design and communication. Orthographic projection, paraline drawing, and perspective projection of simple forms in drafted and freehand methods are introduced. Drafted and freehand drawing of actual and proposed environments are considered, including the analysis of light and shade, materials, textures, and various contextual elements. Prerequisite: Approval from the Dean of the School of Architecture and Urban Design. LAB

Physical education activity courses do not count toward graduation from the School of Architecture and Urban Design.

The Murphy Art and Architecture Library in Spencer Museum of Art contains more than 120 periodicals and 101,000 volumes.

Resource materials in Marvin Hall include the Architectural Resource Center and a collection of 90,000 slides.

ARCH 114 Basic Design and Architectural Graphics II (6). A continuation of ARCH 113 with an introduction to the principles of two-dimensional and three-dimensional design through a series of studio exercises. Techniques of composition and representation include hierarchy, symmetry, rhythm, sequence, balance, scale, pattern, texture, tone, and color. Basic principles of architectural design include function, site context, and materials. Studio assignments stress spatial relationships as well as graphic skills. Prerequisite: ARCH 113 (see studio grading policy). LAB

ARCH 200 Architectural Foundations III (6). A continuation of ARCH 101 with a series of studio exercises following a succession based on analysis, form, and syntax, with an emphasis on the communication of architectural ideas. Students explore plan, section, and spatial organization, spatial sequence, structure and materiality in relation to human dwelling and the building site. The course aims for student integration of these issues into building designs that require the organization of multiple spaces. Students will consider natural forces as they both shape and affect buildings, including gravity, wind, light, heat, sound, and fluids. Precedent studies, direct observation, building analysis, and site analysis are significant aspects of the semester. Prerequisite: ARCH 101. LAB

ARCH 201 Architectural Design II (6). A continuation of ARCH 200 with an increased emphasis on the problems and models associated with detailed development and implementation. Prerequisite: ARCH 200 (see studio grading policy). LAB

ARCH 215 Intensive Graphics I (3). A supplementary course in architectural graphics. Intensive practice in sketching and drawing. Prerequisite: Consent of instructor. LAB

ARCH 300 Architectural Design III (6). A continuation of ARCH 201 with an increased emphasis upon building construction as a form determinant. Prerequisite: ARCH 201 and completion of all required courses of the first two years with a cumulative grade-point average of 2.0 (see studio grading policy). Corequisite: ARCH 626. LAB

ARCH 301 Architectural Design IV (6). A continuation of ARCH 300 with an increased emphasis upon development and the integration of structural subsystems. Prerequisite: ARCH 300 (see studio grading policy). Corequisite: ARCH 627. LAB

ARCH 303 Design Information (1). Introduction to technical, visual, social, and economic factors that shape buildings and the building process. Students will be introduced to sources of design information and will then apply that data in specific studio exercises. Students will be evaluated by individual design instructors and exercises will be coordinated with studio projects. Requires co-enrollment with ARCH 301. LEC

ARCH 310 Computer Applications (3). The course will immerse students in the exploration of the generation, manipulation, and production of graphic images through the use of computers. The goal of the course is to help reach an understanding of computers that allows for future growth in an environment in constant change, and to provide an overview of what is currently possible. The format of the course will be a combination of lectures and workshops. The lectures will introduce students to theoretical and application-oriented topics. Group discussions will focus on the computer as a conceptual construct, the computability of design, and computers as design partners. The workshops will provide students with hands-on experience. The vehicles used for these investigations will be desktop publishing, paint, and drafting tools. As resources become available this list will be augmented. LEC

ARCH 321 Building Construction I (2). A lecture course open to non-architecture students that covers the content of ARCH 626 but does not include a laboratory experience related to architectural design. Topics include codes, ordinances, subsurface investigation, foundations, waterproofing, fireproofing, paving, wall bearing and skeleton frame systems, reinforced concrete, steel, wood, masonry, roofing, and flashing. LEC

ARCH 322 Building Construction II (2). A continuation of ARCH 321. A lecture course open to non-architecture students that covers the content of ARCH 627 but does not include a laboratory experience related to architectural design. Topics include industrialized building systems, comparisons between labor-intensive and capital-intensive building processes, and a consideration of the detailed subsystems that comprise the built environment. Prerequisite: ARCH 321. LEC

ARCH 344 Shelter, Tool, and Environment (3). This course examines the relationship between the physical manifestations of shelters, tools, or built environments, and human culture and experience. Different environments are examined (urban, rural, educational, civic, commercial, or sacred) through various types of experience: perceptual and cognitive, social and cultural, physiological, symbolic, political, or aesthetic. Illustrated lectures and readings. LEC

ARCH 357 Construction Documents (3). A study of construction drawings; the application of the principles of architectural materials and construction. Essentials of specification writing. Lectures and laboratory. Corequisite: Enrollment in third-year design studio. LEC

ARCH 359 Special Problems (1-3). Special problems in architecture. The study of a particular problem in architecture involving individual research and presentation. Conferences and reports. (May be taken for Credit/No Credit.) Prerequisite: Student must submit to

his or her faculty adviser, in advance, a statement of the problem he or she wishes to pursue, the methodology he or she plans to use in the program, and the objectives of the special problems. He or she must also be in agreement with the faculty member he or she proposes as instructor for the course. IND

ARCH 360 Landscape Design and Site Planning (3). Positive spaces and places of superior quality are the concern of this lecture course which is an overview of landscape design and thus includes components of history and theory as well as technical aspects of site analysis, planning, and design. Lectures and readings address a range of scales from house and garden to campuses, parks, and cities, and illustrate the effective combination of landforms, plant materials, landscape structures, lighting, water, and the siting of buildings. Site engineering exercises cover aspects of contours, grading and road layout. Prerequisite: ARCH 114. LEC

ARCH 380 Architecture Workshop I (4). The purpose of this course is to introduce students to the process of architectural design and further develop a formal vocabulary. Students will explore building analysis through studio-type exercises. Both local and well known buildings will be examined. Open only to students admitted to B.A. in Architectural Studies. Prerequisite: ARCH 103. One history course (HA or ARCH) as well. LEC

ARCH 381 Architecture Workshop II (4). This course will extend the concerns of ARCH 380. Students will analyze more complex architectural programs, city spaces, and larger buildings. They will make design proposals for small scale structures. Prerequisite: ARCH 380. LEC

ARCH 390 Architectural Study Abroad: _____ (1-3). Organized field visits and study of selected architectural and urban sites abroad. Pre- and post-travel readings on individually selected themes. Students will be expected to maintain a diary and/or sketch book and submit a final paper. Prerequisite: Permission of instructor. FLD

ARCH 400 Architectural Design V (6). A continuation of ARCH 301 with an emphasis on the design of individual buildings with context and precedent as major form determinants. Prerequisite: ARCH 301 (see studio grading policy). LAB

ARCH 401 Architectural Design VI (6). A continuation of ARCH 400 with an emphasis on design development and the integration of environmental systems. Prerequisite: ARCH 400 (see studio grading policy). Corequisite: ARCH 657 and ARCH 664. LAB

ARCH 440 Theory and Context of Architecture (3). An examination of architectural theories through the analysis of several important or paradigmatic buildings. Presentations by guest lecturers are included. Prerequisite: ARCH 642, History of Architecture III, Modern. LEC

ARCH 480 Senior Seminar (3). This seminar will expose students to normative and critical approaches in the profession of architecture. Through field trips, attendance at juries, readings, and presentations by architects and designers, they are to develop an understanding of the precedence, theories, and practices of the profession. This is the capstone course for the B.A. in Architectural Studies. Prerequisite: ARCH 381. LEC

ARCH 500 Architectural Design VII (6). A continuation of previous design study with emphasis given to specific student and faculty interests varying from large to small scale projects with focus ranging from theoretical to pragmatic issues. Prerequisite: ARCH 401 (see studio grading policy). LAB

ARCH 501 Architectural Design VIII (6). A culmination of all previous design study with emphasis given students' demonstration of the synthesis of all previously acquired skills. Prerequisite: ARCH 500 (see studio grading policy). LAB

ARCH 510 Problems in Computer Applications (3). The study of a particular problem in architecture involving the application of computer-aided design and analysis techniques. Individual or group tutorials. Prerequisite: Consent of instructor based on the student's advance submission of a written proposal outlining the plan of study. Completion of one course in computer programming and/or specific experience in writing original computer programs. LEC

ARCH 520 Architectural Acoustics (3). An introduction to the physics of sound. Objective and subjective evaluation and control of sound as applied to architectural spaces. Room shaping, mechanical and electrical system noise and vibration control, and electro-acoustic sound reinforcement. Prerequisite: PHSX 114 and ARCH 626 or equivalent, or consent of instructor. LEC

ARCH 521 Electro-acoustical Systems (3). A study of electro-acoustic sound reinforcement and reproduction systems for buildings. Prerequisite: PHSX 212, or consent of instructor. LEC

ARCH 526 Building Power Systems for Architects (1). A study of the principles of electrical power distribution systems for buildings. Open to architecture students only. Prerequisite: PHSX 114. LEC

ARCH 527 Building Interior Lighting for Architects (1). A study of technology and analysis tools used for interior lighting in buildings. Open to architecture students only. Prerequisite: PHSX 114. LEC

ARCH 528 Building Acoustical Systems for Architects (1). A study of acoustic principles, materials, and systems relating to buildings. Open to Architecture students only. Prerequisite: PHSX 114. LEC

ARCH 552 Professional Practice (3). The essentials of office practice, including an analysis of the principal divisions of service, office procedures, and review of the Standard General Conditions of the American Institute of Architects contract. Guest lecturers and papers on specialized subjects. LEC

ARCH 570 Contemporary Issues Seminar I (1). A series of Saturday morning seminars on contemporary issues facing the profession. LEC

ARCH 571 Contemporary Issues Seminar II (1). These seminars will consist of three to four guest lecturers each semester. All students enrolled in this course will attend the same lecture as ARCH 572. Topics will be selected to reflect major issues covered in the course work, or contemporary issues facing the profession. LEC

ARCH 572 Contemporary Issues Seminar III (1). These seminars will consist of three to four guest lecturers each semester. All students enrolled in this course will attend the same lecture with ARCH 571. Topics will be selected to reflect major issues covered in the course work, or contemporary issues facing the profession. LEC

ARCH 573 Financial and Economic Issues in Architecture Management (3). This course will focus on the fundamentals of accounting, macroeconomics and the construction industry, and concepts related to the development and implementation of a strategic business plan. LEC

ARCH 574 Organizational Issues in Architecture Management (3). Topics that will be covered in this course include the organization of a professional practice, personnel management, and the development of effective communication skills. LEC

ARCH 575 Architecture Management: Managing a CAD System (3). This course covers the various procedures involved in managing a CAD system within a design organization. It also explores the different applications and uses of current CAD technology. Topics to be addressed include: selecting a system; billing CAD services; support services and personnel; marketing CAD; customization, file management, menus and script files; AutoLisp Programming; and integrating CAD with other programs. Prerequisite: An introductory CAD class or permission of the instructor. LEC

ARCH 576 Project Delivery in Architecture Management (3). Conventional methods for project delivery will be reviewed along with design/build, fast-track, and other techniques. The relationship of the architect and development will also be explored, as will the relationship of project development to urban design concepts. LEC

ARCH 577 Marketing Architectural Services (3). The emphasis of this course will be on the development and implementation of a marketing plan, techniques related to the marketing of specific projects, and the relationship of marketing to other components of a firm. LEC

ARCH 578 Legal Issues in Architectural Management (3). A course designed to familiarize the student with legal considerations related to a professional practice. Case studies and selected readings will serve as the basis for discussion of registration, contracts, business formation, taxes, employment practices, copyright, and patent law. In addition, the course will draw upon the knowledge and experience of members of the professional community. LEC

ARCH 600 Special Topics in Architecture: _____ (1-3). This course is for the study of architectural topics on a one time or experimental basis in response to changing needs and/or resources in the Program. It may be offered concurrently by different instructors under different subtitles as announced in the Timetable. May be repeated for credit. Prerequisite: Variable. IND

ARCH 602 Accelerated Architectural Design (6). An accelerated course combining the content of ARCH 200 and ARCH 201. Offered only in the summer. Prerequisite: Undergraduate degree in area other than architecture with three credits in calculus, four credits in physics, three semesters of English, and permission of the Dean of Architecture and Urban Design. LAB

ARCH 603 Graduate Design Studio I (6). Architectural design studio that introduces the student to fundamental concepts of building construction and technology as form determinants. Graduate level course that supplements the core syllabus of ARCH 300 with weekly seminars, expanded reading lists, and additional classroom assignments. Prerequisite: Undergraduate degree in area other than architecture with three credits in calculus, four credits in physics, three semesters of English, and/or permission of the Dean of the School of Architecture and Urban Design. Corequisite: ARCH 626. LAB

ARCH 604 Graduate Design Studio II (6). A continuation of ARCH 603 with an increased emphasis on development and integration of structural subsystems. Graduate level course that supplements the core syllabus of ARCH 301 with weekly seminars, expanded reading lists, and additional classroom assignments. Prerequisite: ARCH 603 (see studio grading policy). Corequisite: ARCH 627. LAB

ARCH 610 Computers and Project Development (3). This course introduces one to the use of computers in project development (final and execution drawings, specifications). Initiates advanced computer aided design systems. Emphasis is to be on CAD potential in generating complex representation; lectures and laboratory work on extent and limits of CAD systems in design; familiarizes with software and hardware (basic training, plotting, etc.); encourages the use of

CAD process for exploration (three-dimensional representation); introduces editing and report preparation. Lectures on computers and profession. No computer language is taught in this course. Prerequisite: ARCH 310 or introductory CAD course. LEC

ARCH 613 Visual Thinking Studio I (3). An intensive course covering the graphics topics described in ARCH 113 and ARCH 114. Graduate level course that supplements the core syllabus or ARCH 102 with weekly seminars, expanded reading lists, and additional classroom assignments. Prerequisite: Undergraduate degree in area other than architecture with three credits in calculus, four credits in physics, three semesters of English, and/or permission of the Dean of the School of Architecture and Urban Design. LAB

ARCH 615 Intensive Graphics II (3). Open to students with intermediate level graphic skills. Course will be designed to deal with all aspects of graphic communication for designers in the different stages of the architectural process. This would include sketching, drafting, lettering, rendering, modelmaking, photographic and slide presentation, reproduction, brochure, etc. Prerequisite: Consent of instructor. LAB

ARCH 616 Advanced Architectural Presentation Techniques (3). An advanced studio course intended for students who have a working knowledge of basic presentation techniques wishing to refine their existing skills and experiment with new techniques. The course will review basic techniques and explore new ones through a series of lectures and these techniques will be put to use in the concurrent development of complete presentations of architecturally significant buildings. The lectures and studio work will be supplemented by slide presentations, demonstrations, guest lecturers, and field trips. Not intended as a remedial course or substitute for ARCH 615. Prerequisite: Consent of instructor. LEC

ARCH 617 Principles of Architectural Composition (3). The symbolic effect of space, form, and surface will be investigated through the variables of pattern, repetition, rhythm, proportion, contrast, harmony, theme, and other dynamics of variation and change. Assignments will be designed to develop the student's sensitivity to these variables and their contribution to perception of beauty in architecture. Prerequisite: ARCH 201, ARCH 604, or consent of instructor. LEC

ARCH 618 Architectural Photography (3). A basic course in black and white photography intended to enable the student to utilize photography routinely as a medium for visualization, documentation and presentation of images useful for design. It is organized in relation to the controls of the roll film camera so that assignments reinforce the understanding of this tool and its creative possibilities. Experiences include making photographs, developing black and white film, printing black and white images, mounting and presenting prints, photocopying, photographing buildings and architectural models, photomontage, high contrast graphics effects and an introduction to color materials. Enough technical information is included for the student to pursue black and white photography on his/her own to the desired level of proficiency. LAB

ARCH 619 Advanced Architectural Photography (3). An advanced course in photography specifically dealing with the skills and techniques of the professional architectural photographer. Students will use and experiment with large format photography, manipulation of the exposure and development process, special developers and processes; negative retouching, specialized film and their application, simulation, model photography, and photographic rendering. Brochure development, marketing services, and professional ethics will also be discussed. Prerequisite: ARCH 618 or equivalent, submission of a brochure, and consent of instructor. LAB

ARCH 620 Statics for Architects (2). The principles of statics, with particular attention to architectural applications. Open to architecture students only. Prerequisite: MATH 115 and PHSX 114. LEC

ARCH 621 Strength of Materials for Architects (2). A course that includes a basic treatment of stress and deformation in elastic bodies. Open to architecture students only. Prerequisite: ARCH 620. LEC

ARCH 622 Material Investigations (3). This course will provide opportunities for students to learn about research methods in the realm of architectural materials. The course will have two concurrent phases: the first phase will consist of a series of field trips to materials manufacturers, fabricators and distributors in the Lawrence, Topeka and Kansas City area. The purpose of these trips is to see, first-hand, how materials are developed and made, and to understand the research involved in their development. The second phase will consist of a self-directed research project based on the students' natural curiosity about a particular material or process. The project will have three components: 1) a research agenda, rigorously developed and executed; and 2) a "built" component, with actual materials, executed by the students' own hands and financial resources; and 3) final documentation of the research project. LEC

ARCH 623 Building Practicum (3). The building technology practicum is offered as a course that will afford students a "real world" experience outside of the academic setting. Students can bring their own project proposals to the practicum committee or faculty members on the committee can suggest local preservation efforts, including planning and administration, or actual physical implementation of such projects. It could also be in the interest of some students to develop skills in a specific area, i.e. model building, archi-

tectural photography, historic reconstruction, or technical documentation. Those interested in specific areas will need to work closely with the practicum committee to develop a working list of goals and objectives. Students can elect to work individually or in teams, can work outside of the semester schedule with grades assigned at the completion of the project, and will be bound by a contract approved by the practicum committee. LEC

ARCH 624 Structural Systems for Architects (3). Introduction to the behavior of structural components and systems, and an in-depth study of building systems. Framing of buildings. Structural connections. Foundations. Open to architecture students only. Prerequisite: ARCH 620 and ARCH 621. LEC

ARCH 625 Analysis and Design of Structures for Architects (3). Analysis of statically indeterminate beams and frames. Fundamentals of structural design in concrete and steel. Open to architecture students only. Prerequisite: ARCH 624. LEC

ARCH 626 Building Technology I (3). An introduction to systems of construction, including codes, ordinances, sub-surface investigation, foundations, waterproofing, paving, wall bearing and skeleton frame systems, reinforced concrete, steel, wood, fireproofing, masonry, roofing, and flashing. Lectures and demonstrations by the instructor and visitors, films, slide projection, written examinations. A student should be able to demonstrate an understanding of elementary systems of construction and be prepared to relate this understanding to the architectural totality. Corequisite: ARCH 300 or ARCH 603. LEC

ARCH 627 Building Technology II (3). A continuation of ARCH 626. Introduction to industrialized production; a comparison between labor-intensive and capital-intensive processes and the implications of each. A consideration of the detailed sub-systems which comprise the built environment. Lectures and demonstrations by the instructor and visitors, films, slide projections, written examinations. A student should demonstrate an understanding of elementary systems of construction and be able to relate this understanding to the design process. Prerequisite: ARCH 626. Corequisite: ARCH 301 or ARCH 604. LEC

ARCH 628 Structure in Nature and Architecture (3). The course deals with the historical development of structure, first in nature and then in architecture. In nature, the course discusses the evolution of structural materials, systems, connections and anchorage (foundations) in geological structure, botanical structure, endoskeleton structure, exoskeleton structure and insect architecture. The course then analyzes the growth of structure from anthropological structure through ancient and medieval structure to modern architecture. In these broad architectural periods in world history, the course examines the structural materials, structural behavior and construction of some of the important buildings that helped to define and delineate the architecture of their time. This course helps students to understand structural systems and their behavior, in a non-mathematical way, by relating the structural principles involved to our common experience of the world around us. The course will have every student do a research project on an assigned topic in geological structure, botanical structure, exoskeleton structure, insect architecture or anthropological structure. LEC

ARCH 629 Listening to Architecture (3). This course has the objectives of introducing the art and science of "listening" to architectural spaces; exploring, from both historical and current viewpoints, how proper acoustical conditions have and can be realized within the aesthetic and functional parameters of the particular architectural space; understanding the importance of building acoustics in architectural design; obtaining the ability to discuss building acoustics with the proper use of acoustical terms and descriptions; and understanding the basics of how sound behaves in an enclosed architectural space. The course will include several visits to existing architectural spaces that have specific acoustical requirements and interesting acoustical characteristics. LEC

ARCH 630 Recording and Representing Historic Structures (3-6). This class trains students in the disciplines necessary to produce drawings for the Historic American Building Survey archives at the Library of Congress. Entry is by competitive submission of portfolios and is open to architectural students at the sophomore level and above. They will gain experience in survey techniques, production of measured drawings and in the intellectual processes necessary to complete comprehensive drawings for the HABS collection. Instructor permission required. LEC

ARCH 631 Issues in Contemporary Architecture (3). This class focuses the student on directed readings and provides the student the opportunity to select a topic for the semester's duration. With a very crammed schedule, the student is given a venue to concentrate on issues that they wish to pursue. A seminal reading is provided to the class, at the beginning of the semester, and this reading forms the basis of the semester's discussion. The selected reading is "current" and is the device used to distribute other readings pertinent to the author's argument. The basis of selection is related to current thought and discourse affecting the evolving nature of architectural culture. Class discussion may include slides, videos, sound tapes, etc. These are intended to complement the assigned readings. LEC

ARCH 632 Contemporary French Architecture (3). This course introduces the student to contemporary trends in French architecture. Social, technological, economic, and theoretical perspectives will be

investigated, and the work of the major French architects of the latter half of the twentieth century will be studied in depth. This course supplements the Paris studio program. LEC

ARCH 634 Analysis and Design of Structures for Architects (3). Analysis of statically indeterminate beams and frames. Fundamentals of structural design in concrete and steel. Open to architecture students only. Prerequisite: ARCH 633. LEC

ARCH 636 Art of Architectural Machines (3). This course emphasizes architectural trends of the twentieth century, which have been influenced by significant technological advances. The purpose of the course is to familiarize the student with the achievements and failures of architectural concepts that were influenced by modern technology. Examples will be drawn primarily from buildings and architects in Western Europe and North America. LEC

ARCH 637 Architecture and Cosmos (3). Ideas of symmetry, harmony, proportion, and ideal form have long been used by architectural theorists and practitioners as a way of translating a traditional knowledge of the world into architectural form. Such traditional knowledge is embedded in the mathematics of Pythagoras, the philosophy of Plato, and the four part study of the cosmos (known in Western thought as "the quadrivium"—arithmetic, geometry, music, and astronomy). This course will entail the study of selected readings in this intellectual tradition as well as the analysis of buildings as they relate to the concepts learned through this study. Prerequisite: ARCH 641, History of Architecture II: Renaissance, or consent of instructor. LEC

ARCH 638 Architecture, Art, and Science (3). This course explores the relationship between architecture and the liberal arts and sciences through the principle of isomorphic correspondence—a term from Gestalt psychology to describe similar structures occurring in different media. Emphasis on the historical connections to music and on aesthetic principles on the natural sciences. Prerequisite: Six hours of architectural history or consent of instructor for non-majors. LEC

ARCH 639 Current/Historical Directions in Architecture (2-3). A study of contemporary or historical trends in architecture which relate to the development of individual or broad philosophies of architecture. LEC

ARCH 640 History of Architecture I: Ancient and Medieval Architecture (3). A survey of architectural history from pre-history through the Middle Ages, with emphasis on the formal and technological aspects of the buildings and on the social and political functions of architecture. Weekly lectures and readings including original sources. LEC

ARCH 641 History of Architecture II: Renaissance to Enlightenment (3). A continuation of ARCH 640, History of Architecture I, studying the period from 1400 to the mid-18th century. Particular attention given to new theoretical developments and to stylistic expressions that emerged with the revived interest in classical antiquity, the effects of new scientific thinking on architecture, and on the role of architecture as an expression of political power. Emphasis is on architecture in Europe and the Americas with exploration of contemporary developments in Asia and Africa. Prerequisite: ARCH 640 or consent of instructor. LEC

ARCH 642 History of Architecture III: Modern (3). A continuation of ARCH 641, History of Architecture II, covers the period from around 1750 to the present. Particular emphasis is placed on the major cultural shifts that have impacted architectural representation and have contributed to its differentiation as Modern, not only in Europe, North and South America but also with examples in India and Pakistan. Weekly lectures and readings including original sources. Prerequisite: ARCH 641 or consent of instructor. LEC

ARCH 648 Historic Preservation (3). The focus of this course is on the development of concepts and practices of retrieving, recycling, and curating the built environment from the mid-nineteenth century to the present. After a series of introductory readings and discussions, students are encouraged to investigate particular environmental, technological, social, or ideological questions of their choice, focusing on structures that demonstrate persistence over great distances and, co-existing with this persistence, ability to accommodate changes over time. LEC

ARCH 650 Architect-led Design-build (1). This is a 5-week course covering an introduction to the design-build method of project delivery, highlighting the role of architect as leader of the design-build team. The course covers team structure; ethical issues; forming a design-build firm; project management; licensing, corporate and insurance issues; public design-build laws and bridging. LEC

ARCH 651 Advanced Design-build for Architects (2). This is a 10-week course covering a more advanced examination of the design-build method of project delivery, highlighting the role of architect as leader of the design-build team. The course covers team structure; ethical issues; forming a design-build firm; project management; licensing, corporate and insurance issues; public design-build laws and bridging; as well as history, architect-as-prime contractor, architect-as-subcontractor, business issues and marketing, bonding, design-build contracts, cost estimating and OSHA, risks and legal liabilities. LEC

ARCH 652 Architect-client Relations (1). The intent of this five-week course is to provide a forum for the examination of varied aspects of the architect-client relationship. Components of this relation-

Students in architecture work closely with faculty members in design studios and are encouraged to seek as many different design critics as possible during their studies.

The Kyou portal gives Lawrence and Edwards Campus students access to many online services and resources. Visit <https://students.ku.edu>.

ship will be explored both from the point of view of the practicing architect and of the project owner or client. LEC

ARCH 653 Nontraditional Careers in Architecture (1). The intent of this five week course is to provide a forum for the examination of the wide range of career options that are open to architects. The positive impact, to both the built environment and society as a whole that architects in alternative roles are ideally suited to provide, will be explored. LEC

ARCH 654 Ethics in Architectural Practice (1). This course is designed to develop an understanding of the underpinnings of ethical reasoning including the structure and vocabulary of moral argumentation; apply this knowledge to common ethical issues confounding contemporary architects, demonstrated through presentations and interaction with leading Kansas City architects, interactive analysis of case studies, participatory discussions, reading comprehension and analytical writing. LEC

ARCH 658 Programming and Pre-design Issues (3). This course will introduce the concepts, methods, techniques, and information used by the architect to establish the parameters of a project, prior to entering the formal design process. The content will introduce the core competencies in programming, site, and environmental analysis required by the profession. Programming theory, research techniques, information analysis, evaluation of significance, and creative synthesis of the multivalent factors acting upon the pre-design process of project definition will be covered. Site analyses will include urban places as well as less developed, more rural locations. Exercises may include programming and analysis of projects and sites assigned in the Architectural Design Studio sequence. Prerequisite: ARCH 301 or ARCH 704. LEC

ARCH 661 Eighteenth- to Twentieth-century American Landscape Design (3). This course will explore eighteenth, nineteenth, and twentieth-century American landscape design including gardens, estates, rural cemeteries, campuses, suburbs, urban parks, and national parks, as well as the beginnings of landscape architecture as a profession. Topics of inquiry will include European contributions in landscape theory, practice, and aesthetics, and American adaptations in response to climatic, social, and political differences. An important focus will be whether one can look at a designed landscape and see the expression of an attitude toward nature. LEC

ARCH 662 Twentieth-century American Landscape (3). The purpose of this course is to investigate the relationships between the American culture and the resulting built and natural landscape. Issues of building types, public places, and land use arrangements will be studied from a socio-historical perspective. (Same as UBPL 662.) LEC

ARCH 663 Darwin, Humboldt, and Changing Ideas in Landscape Architecture (3). The seminar explores the influence of the natural historians Alexander von Humboldt and Charles Darwin on American writings in landscape architecture in the late 19th and early 20th centuries. The original texts of Humboldt (including *Aspects of Nature and Cosmos*) and Darwin (including *On the Origin of Species and Insectivorous Plants*), will be studied in conjunction with significant authors in landscape architecture including A. J. Downing, George Perkins Marsh, Frederick Law Olmsted, Horace William Shaler Cleveland, Mariana Griswold van Rensselaer, Jens Jensen, Garrett Eckbo, Daniel Kiley, and James C. Rose. The emerging ideas of conservation and ecology found in these works will also be examined. LEC

ARCH 665 History of Urban Design (3). An exploration of the evolution of cities through the cultural and spatial development of human settlement patterns. The role of cities in the transformations of human culture from tribal communities to post industrial society is defined in terms of the historical origins of urban institutions and functions and their transformation into spatial structure and physical form. LEC

ARCH 670 Spreadsheet Applications (1). This course will focus on the application of electronic spreadsheets in the management of project fees, company staffing, and business cash flow. Topics covered include spreadsheet linkage, creation of lookup tables, data consolidation, writing macros and charting results. LEC

ARCH 671 Database Management (1). This course focuses on the development of database applications to track the information generated during the normal course of business operations. Topics include database design, table creation, queries, forms, reports, and macros. LEC

ARCH 672 Project Management Software (1). This course uses software packages to manage a simulated design project. The topics in this section include creating tasks and linkages, assigning and managing resources, monitoring a project and creating reports. LEC

ARCH 673 Presentation Tools (1). This course covers the use of various software packages in the development of on-screen and hard-copy presentations. Topics include presentation design, importing graphics, output strategies, and communications techniques. LEC

ARCH 674 Electronic Communication (1). This course focuses on the use of electronic data communications in operating a design organization. Topics include use of the Internet, electronic research, telecommunication technologies and remote access. LEC

ARCH 675 Graphics Packages (1). This course focuses on the development of graphic images. Students are taught to generate vector-based graphics and bit-mapped images that can be incorporated into various software packages. LEC

ARCH 676 Facility Management: Tools and Techniques (3). The application of Information Technology to Facility Management has changed a formerly basement operation into a center of corporate support. In this course, we explore the use of Computer Aided Facility Management (CAFM) software and its application to real world facility management. LEC

ARCH 677 Construction Cost Estimating for Architects (1). The main objective of this course is to introduce and inform the student of the processes involved in construction estimating. This course will focus on commercial construction and the fundamentals of estimating a commercial project. This course will acquaint the student with quantity surveying, costing methods, types of estimates, estimating software, the construction estimating process, and estimating the various parts of a project. LEC

ARCH 678 Construction Project Management for Architects (1). The main objective of this course is to introduce and inform the student of the processes involved in construction project management. This course will focus on commercial construction and the fundamentals of managing a commercial project. The course will acquaint the student with transferring a project from the estimating stage to actual construction, the buyout process, contracts, purchase orders, responsibilities of project managers, responsibilities of superintendents, planning and scheduling, management of changes in a project, financial reporting, accounting processes, payment procedures, and the close-out process in construction. LEC

ARCH 680 Building with Intelligence (3). This course is intended to be a broad course introducing basic concepts of sustainable design. It will introduce broad outlines of many of the crucial issues facing us in the next few decades. This course identifies how we can re-imagine the relationship between human beings and living systems. The order of the course will begin at a broad overview of our environmental dilemma, then focus upon community issues and end with a close look at green buildings and their systems. This course will include a series of lectures, required reading with written responses, visits to local examples of sustainable buildings and the development of research projects. LEC

ARCH 681 Defining Community (3). This course explores how a neighborhood is sustainable, or is not. Imbedded in our built landscape are constructs, which once revealed, offer us insight into a community's values and underlying intentions. We will engage neighborhoods in Lawrence, Kansas, and other community neighborhoods. This seminar course will provide a format for discussion and testing observations of patterns in neighborhoods. Our intent will be to describe the detailed patterns for neighborhoods, houses, and gardens, thereby increasing an understanding of how people inform and are informed by their neighborhoods. This course will include a series of lectures, required reading with written responses, visits to a variety of neighborhoods and the development of research projects. LEC

ARCH 690 Architecture Study Abroad (6). Students participate in a summer study abroad program approved by the Architecture Faculty. Graded on a satisfactory/fail basis. Co-requisite: ARCH 692. IND

ARCH 691 Architecture Practicum (6). Based upon the student's approved proposal, each student will explore the process of creating the built environment by working in a setting that is intended to provide a new perspective for that student. The range of venues may include non-profit organizations, research settings, hands-on building experiences, and other professional settings as approved by the Architecture Faculty. Graded on a satisfactory/fail basis. Co-requisite: ARCH 692. IND

ARCH 692 Documentation (3). Students will document their experience in ARCH 690, ARCH 691, or other approved study abroad program. This is intended as a critical reflection upon the student's experience and is additional documentation produced beyond the work done for ARCH 690 or 691. The final product will include a written paper, using appropriate graphics to illustrate key points. IND

ARCH 693 Workplaces (3). This course is about the design of places where people work. The workplace is important for many reasons. Not only do we spend a considerable amount of our waking life there, but our work often becomes one of the central features of our life. In some senses it can be considered to be a homelike activity; people often identify with their work and personalize their workplaces and make them responsive to their daily life needs. Workplaces are also social places where people meet and interact. And, of course they are also places of work, where they must respond to work needs and be conducive to efficient and productive work activities. This course will raise questions about how to design good workplaces. LEC

ARCH 694 Homeplaces (3). Architects design buildings and spaces which they hope will contribute to making significant, enriching, and rewarding places. The quality of places, however, is not identical to the quality of buildings which contribute to them. This course will explore ways in which physical environments, in this case, houses can become and be experienced as rich and embraced homeplaces. It will look at the various processes through which residents, dwellers, designers, real-estate agents, builders, and others are involved with home environments. Implications for design and production processes will be investigated with reference to particular case studies. LEC

ARCH 700 Directed Readings in Architecture: ____ (1-3).

The architectural engineering program is offered in cooperation with the School of Engineering. Architectural engineering courses appear under Engineering in the *Timetable of Classes*, www.timetable.ku.edu.

See School of Engineering for descriptions of architectural engineering courses.

See the University of Kansas Graduate School Catalog for information about the Master of Urban Planning degree program.

- ARCH 701 Introduction to Graduate Studies (3).
- ARCH 703 Graduate Design Studio III (6).
- ARCH 704 Graduate Design Studio IV (6).
- ARCH 705 Graduate Design Studio V (6).
- ARCH 706 Thesis or Project Definition (1).
- ARCH 707 Furniture Design and Production (3).
- ARCH 720 Architectural Acoustics (3).
- ARCH 721 Electro-acoustical Systems (3).
- ARCH 732 Environmental Pattern Languages (3).
- ARCH 733 Analogous Thinking in Design (3).
- ARCH 740 Architecture History/Theory IV (3).
- ARCH 754 Design Ethics (3).
- ARCH 762 Urban Design Studies (3).
- ARCH 764 Site Planning (3).
- ARCH 765 Theory of Urban Design (3).
- ARCH 770 Contemporary Issues Seminar I (1).
- ARCH 771 Contemporary Issues Seminar II (1).
- ARCH 772 Contemporary Issues Seminar III (1).
- ARCH 773 Financial and Economic Issues in Architecture Management (3).
- ARCH 774 Organizational Issues in Architecture Management (3).
- ARCH 775 Architecture Management: Managing a CAD System (3).
- ARCH 776 Project Delivery in Architecture Management (3).
- ARCH 777 Marketing Architectural Services (3).
- ARCH 778 Legal Issues in Architecture Management (3).
- ARCH 790 Architectural Study Abroad: ____ (1-3).

Architectural Engineering

Architectural engineering at KU is administered by the School of Engineering. For program requirements and course descriptions, see Civil, Environmental, and Architectural Engineering in the School of Engineering chapter of this catalog.

Urban Planning

Chair: James M. Mayo
 Marvin Hall, 1465 Jayhawk Blvd., Room 317
 Lawrence, KS 66054-7614
 (785) 864-4184, www.saud.ku.edu/urban/new

No undergraduate program is offered in this area, but Urban Planning courses may be taken to count toward undergraduate degrees in other areas.

● Urban Planning Courses

UBPL 500 Planning the American City (3). A broad introduction to the field of urban planning as a technical profession, a process of decision-making, and a governmental function. The multi-disciplinary nature of planning as an area for professional practice in the geographical, socio-economic and political contexts of the U.S. is stressed. The course is intended for both the student who is considering planning as a major field of

study and the student with primary interest in a related field who would like a working knowledge of past and current planning in the U.S. LEC
UBPL 502 Special Topics in Urban Planning: ____ (1-6). Intended for undergraduate individual or group projects/research in an urban planning topic. LEC

UBPL 522 History of the American City I (3). This course examines the evolution of American cities from their European antecedents through the late 20th Century, from the urban planning perspective. It focuses on the changing spatial forms and functions of American cities and how these changes relate to socioeconomic and political aspects of urbanization as well as changes in technology. Emphasis is placed on analyzing the relationships between historical development patterns and the current range of problems facing most U. S. cities. (Same as UBPL 722 but gives undergraduate credit.) LEC

UBPL 538 Environmental Planning Techniques (3). The course covers a variety of topics within environmental planning. Each topic is examined with respect to the scope of the issues, the methods of analyzing and/or measuring those issues, and the ways planners can address those issues in order to avoid or mitigate environmental problems. LEC

UBPL 565 Principles of Environmental Planning (3). This course introduces students to the issues that planners and decision makers face as they strive to protect environmental resources, especially within the context of land use planning. Emphasis will be placed on the theoretical and policy considerations that guide the work of environmental planners. LEC

UBPL 662 Twentieth Century American Landscape (3). The purpose of this course is to investigate the relationships between the American culture and the resulting built and natural landscape. Issues of building types, public places, and land use arrangements will be studied from a socio-historical perspective. (Same as ARCH 662.) LEC

UBPL 701 Directed Readings (1-6).

UBPL 705 Economic Analysis for Planners (3).

UBPL 710 Introduction to Housing Policy (3).

UBPL 714 Local Economic Development Planning (3).

UBPL 715 "Community" in Neighborhood Planning and Design (3).

UBPL 716 Community and Neighborhood Revitalization (3).

UBPL 718 Downtown Planning (3).

UBPL 722 History of the American City II (3).

UBPL 730 Introduction to Land Use Planning (3).

UBPL 735 Site Planning (3).

UBPL 736 Planning Institutions (3).

UBPL 738 Environmental Planning Techniques (3).

UBPL 739 Issues in Growth Management (3).

UBPL 741 Quantitative Methods I (3).

UBPL 742 Quantitative Methods II (3).

UBPL 746 GIS Applications for Design and Planning (3).

UBPL 750 Introduction to Transportation Planning (3).

UBPL 756 Advanced Seminar in Urban Transportation Planning (3).

UBPL 758 Urban Mass Transportation (3).

UBPL 760 Historic Preservation Planning (3).

UBPL 763 Professional Practice (3).

UBPL 764 Real Estate Development I (3).

UBPL 765 Principles of Environmental Planning (3).

UBPL 766 Urban Design Implementation (3).

UBPL 768 Real Estate Development II (3).

School of Business

William Fuerst, Dean

**Summerfield Hall, 1300 Sunnyside Ave., Room 203,
Lawrence, KS 66045-7585, www.business.ku.edu**

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School of Business

William Fuerst, Dean

Summerfield Hall, 1300 Sunnyside Ave., Room 203
Lawrence, KS 66045-7585, (785) 864-7575

Keith Chauvin, Associate Dean for Academic Affairs
203 Summerfield Hall, (785) 864-7567

bschoolundergrad@ku.edu or www.business.ku.edu
Fax: (785) 864-5328

Degrees offered: B.S., M.A.I.S., M.B.A., M.S., Ph.D.

In the School of Business, undergraduates acquire a rigorous education that prepares them for positions in a dynamic and competitive global environment. The curriculum develops a foundation for lifelong education and growth. The strength of the program is based not only on the quality of the professional course offerings, but also on the offerings of other KU divisions, particularly in the social sciences, natural sciences, and humanities. Students acquire a foundation education in business and management with emphasis on analytical skills and obtain a liberal arts and sciences education from their work outside the school.

The school offers advanced electives in various areas of business (e.g., marketing, finance, international business, accounting, human resources, and information systems). Five undergraduate majors—accounting, finance, information systems, management and leadership, and marketing—are available. Business concentrations may be earned in human resources, information systems, and international business. The baccalaureate programs in the School of Business, and independently the accounting program, are accredited by the American Assembly of College Schools of Business.

Admission

Admission is competitive. Students should apply during the semester in which they will complete the preadmission requirements. Applicants satisfying the minimum requirements are ranked based on their ACT or SAT composite scores and overall professional grade-point averages. Applicants are then admitted based on their positions in this ranking and on available space.

Apply online through the school's Web site. The deadline is September 15 for spring admission or February 15 for summer or fall admission. Applicants who are not currently KU students must submit official transcripts for all previous colleges and universities attended to the Office of Admissions and Scholarships along with their applications. All applicants must have taken the ACT or SAT examination and

have official scores on record with KU. Current KU students may arrange to take the ACT through Testing Services, Level Two, Watkins Memorial Health Center, (785) 864-2768.

Minimum Requirements

To satisfy minimum standards for admission to the School of Business, a student must

1. Complete 60 college credit hours including ACCT 200, ACCT 201, IST 301, DSCI 301, ECON 142, and ECON 144 (or their equivalents). It is strongly recommended that PSYC 104 and a Culture and Society (SC) course also be completed.
2. Achieve a grade-point average of 2.5 in (a) all course work, (b) all professional course work (business and economics), (c) all KU course work, and (d) all KU professional course work. Grade-point average calculations exclude activity hours (i.e., BUS 303, HSES 108, marching band, chorale, etc.)
3. All students, including transfer and international students, must take the ACT or SAT examination and send their official scores to KU.

Because admission is competitive, students who meet the minimum admission standards may not be admitted.

Guaranteed admission to the School of Business is possible when the following requirements have been met at the time of application:

1. Completion of 60 college credit hours.
2. ACCT 200, ACCT 201, and DSCI 301 were completed at KU.
3. Achieve a grade point average of 2.5 in (a) all course work and (b) all KU course work.
4. Achieve a grade-point average of 3.0 in all professional course work (business and economics).
5. ACT or SAT score on file with KU.

Transfer Students

Transfer students may find it to their advantage to enter KU before the junior year, because some courses may be available only at KU. Students attending Kansas community colleges should consult their advisers about course equivalents and articulation agreements to ensure progress toward the degree. A guide to how classes at your current or former school transfer to KU is online at www.admissions.ku.edu/requirements/credtran/find.shtml. You must submit official transcripts of course work completed to the Office of Admissions and Scholarships before a final determination can be made.

Readmission

Students must submit an application for readmission to KU if their lapse in attendance is one semester or more. See Undergraduate Admissions and Scholarships in the General Information chapter of this catalog. Students may be readmitted to the School of Business if they left the school in good standing and it has been less than five years since they last attended.

Five-year Rule. If a student does not complete the business degree within five years of last attendance,

**Photo, page 256:
Assistant
Professor of
Business Kissan
Joseph leads a
class discussion.**

the student must reapply through the competitive admission process. Students also must complete degree requirements in effect at the time of readmission to the business school regardless of the initial program.

Dismissal. Students who have been dismissed from the school must reapply through the competitive admission process.

Visit Our Web Site

The School of Business Web site, www.business.ku.edu, has current information about business programs, services, and facilities. Visit the Web site for information about the resources available in the Richard S. Howey Room, the Wagnon Room, and the Koch Commons, as well as current information about the school's many active student organizations.

Students may be admitted to the School of Business as juniors.

The Student and Academic Services office, 206 Summerfield Hall, (785) 864-7500, www.business.ku.edu, has current lists of courses required for business majors.

Visit the School of Business online at www.business.ku.edu.

Student Services

Advising

The Student and Academic Services office, 206 Summerfield Hall, offers services that help students meet their academic goals. Students should take primary responsibility for their academic careers by consulting SAS, becoming familiar with the undergraduate curriculum and graduation requirements, and cooperating with all guidelines. Advisers help students choose classes, make career choices, and get firmly on the road to academic and career success. For more information, see the school's Web site.

Mandatory Advising. Once a student is admitted to the School of Business, he or she must meet with a business adviser at least once per semester. A hold is placed on an admitted student's enrollment each semester and released when the student meets with the adviser. All students are assigned an adviser, or they can select the adviser of their choice.

Career Services

The Business Career Services Center provides a variety of resources including recruiting functions for full-time and internship positions; on-campus interviews; KU Career Connections/Symplicity, an online job and internship database; individual career counseling; and a variety of workshops and events—to name a few.

Other BCSC services include

- Individual career counseling with trained counselors.
- Career fair (in conjunction with the Undergraduate Business Council).
- Résumé review.
- Mock interviews.
- Workshops on various career-related topics.
- Resource libraries both in print and online.
- Salary information.

Contact the BCSC for more information at (785) 864-5591, fax: (785) 864-5078, www.business.ku.edu/bcsc.

Resources and Opportunities

Study Abroad. The school encourages students to incorporate study abroad into their programs. Student and Academic Services can help students plan study to meet KU requirements while they are abroad.

The school works with students and the KU Office of Study Abroad to select programs and courses appropriate to their interests and majors. Contact the

Office of Study Abroad, 108 Lippincott Hall, 864-3742, www.studyabroad.ku.edu.

Center for International Business Education and Research. The KU CIBER, www.business.ku.edu/kuciber, is one of 30 CIBERs designated by the U.S. Department of Education as national resources in international business. KU's CIBER develops international programs, strengthens faculty expertise in international business, and provides information and education to the region's business community. It provides education and promotes research on international aspects of trade and commerce such as foreign languages, cross-cultural management, political risk analysis, and foreign economic trends.

Italy Program. The Consortium of Universities for International Studies, comprising more than 300 accredited U.S. public universities, offers semester and summer programs for upper-division undergraduates in business, communication studies, economics, and journalism. Liberal arts electives enrich program course work. Programs provide meaningful international experience and allow students to stay on schedule for graduation. Each program delivers rigorous, high-quality, professional courses taught in English. Professors, drawn from the consortium's member universities, are recognized for their experience and excellence in teaching, research, and executive education. Courses are scheduled to encourage travel. For more information, see the school's Web site.

Scholarships. The school awards scholarships to current business students annually. The online application is available at www.business.ku.edu during spring semester. Scholarships generally are awarded in mid-summer. To be considered for need-based scholarships, file the Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov by March 1. Contact the Office of Student Financial Aid, 50 Strong Hall, for information about federal- and state-funded financial aid programs. A limited number of scholarships are available for incoming first-year students. High school students interested in majoring in business should contact the KU Office of Admissions and Scholarships.

Job Shadowing. One on One, Jayhawks on the Job, allows business students to shadow a business professional during the course of a workday. The program offers students a daylong experience that enhances their understanding of a particular field and the business world, allows an opportunity for students to learn more about themselves and refine their career goals, and provides an opportunity for students to network with business professionals.

Internship Program. Internships offer students the opportunity to build on, apply, and assess the concepts that are developed through the school's curriculum and to further professional growth through meaningful real-world job experiences. The internship experience provides many benefits, from enhancing your knowledge of an industry or business field to increasing your confidence in yourself and your abilities. Internships offer an opportunity to improve your professional skills, familiarize yourself with the business environment, network with business professionals, and refine your personal and career goals and aspirations. The internship course is for students entering the Advanced Business Elective portion of the curriculum. The director of the internship program must approve the internship work experience. Not all positions qualify for internship credit.

Faculty

The school's faculty consists of 59 professors drawn from first-rank universities throughout the nation. The faculty enjoys a national reputation for research productivity and teaching success.

School of Business Undergraduate Program

First Year	Sophomore	Junior	Senior
<p>English: ENGL 101/ENGL 105, & ENGL 102</p> <p>Communication Studies: COMS 130 or ENGL 200+ course</p> <p>Humanities: 3 courses (see options in text)</p> <p>Social Sciences: PSYC 104, & one principal course designated SC (Culture & Society) (strongly recommended)</p> <p>Natural Science: 2 courses incl. 1 lab science (see text)</p> <p>Mathematics: Through calculus II</p>	<p style="text-align: center;">PREADMISSION</p> <hr/> <p>Statistics: DSCI 301</p> <p>Information Systems: IST 301</p> <p>Financial Accounting: ACCT 200</p> <p>Managerial Accounting: ACCT 201</p> <p>Microeconomics: ECON 142</p> <p>Macroeconomics: ECON 144</p>	<p>Managerial Economics: ECON 524</p> <p>Legal Aspects of Business: BLAW 301</p> <p>Marketing: MKTG 310</p> <p>Management Science & Operations Management: DSCI 310</p> <p>Finance: FIN 310</p> <p>Organizational Behavior: MGMT 310</p> <p>Accounting Major: 18 hours: ACCT 320, ACCT 325, ACCT 330, ACCT 410, ACCT 543, ACCT 311, & 6 hours of Advanced Business Electives</p> <p>Finance Major: ACCT 321 or ACCT 410, FIN 410, FIN 415, & 12 hours numbered FIN 320 and above</p> <p>Information Systems Major: IST 320, IST 325, IST 326, IST 410, IST 330, & 6 hours numbered IST 320 & above</p> <p>Management & Leadership Major: MGMT 410, MGMT 437, MGMT 455, MGMT 480, & 9 hours numbered 400 or higher with MGMT or IBUS as a prefix, or BLAW 505</p> <p>Marketing Major: MKTG 411, MKTG 415, MKTG 435, & 12 hours numbered MKTG 320 & above</p> <p>Residence Requirement: 30 hours of professional course work (BUS & ECON) must be completed after admission to the School of Business</p>	<p>Business Policy & Strategy: MGMT 498</p>

World Area Study: (see options in text)

This chart depicts the approximate order in which students complete the requirements for a B.S. in Business degree.

Regulations

For information about University of Kansas regulations, see the General Regulations chapter of this catalog.

School of Business Honor Code. Students taking any business course must sign a pledge of academic honesty at the end of all examinations. Upon application to the school, each student must electronically sign an honor code form. The pledge and honor code are on the school's Web site.

Probation and Dismissal. For the complete School of Business probation and dismissal policy, see Probation in the General Regulations chapter of this catalog.

Prebusiness Preparation

Students planning to enter the School of Business as juniors should work toward completing the general education requirements during the first two years. Every student contemplating a major in the school should enroll in a mathematics course during the first semester at KU. It is highly recommended that students complete a Culture and Society course (designated SC) and PSYC 104. Students also are encouraged to begin fulfilling the World Area Study requirement during the first two years. Students must take ACCT 200, ACCT 201, IST 301, DSCI 301, ECON 142, and ECON 144 before admission to the school. For details, see Admission Process in this chapter of the catalog.

Bachelor of Science in Business

The School of Business offers a Bachelor of Science in Business (B.S.B.) with majors in accounting, finance, information systems, management and leadership, and marketing. Each major consists of the following components: general education courses, core business classes, World Area Study, major courses, and Advanced Business Electives.

Degree requirements are subject to change. It is the student's responsibility to stay informed of requirements. To receive the B.S. in Business degree, a student must complete the degree requirements in effect at the time the student is admitted to the school.

Undergraduate Enrollment Diagram. The chart above depicts the preferred order for students to complete requirements for the Bachelor of Science in Business.

General Education Requirements

English. Two courses, ENGL 101/ENGL 105 Composition and ENGL 102 Critical Reading and Writing, are required. Students must enroll in English immediately and continuously until they have completed ENGL 101 and ENGL 102 or their equivalents. See the College of Liberal Arts and Sciences: General Requirements chapter of this catalog.

Communication Studies. One course, COMS 130 Speaker-audience Communication (or an English course numbered 200 or higher) is required.

Mathematics. Two courses, MATH 115/MATH 121 Calculus I and MATH 116/MATH 122 Calculus II are required. Prerequisites apply. See College of Liberal Arts and Sciences: General Requirements for a placement table for initial enrollment in mathematics.

Humanities. Three courses from three different categories are required:

1. HT (Historical Studies)
2. HL (Literature and the Arts)
3. HR (Philosophy and Religion)
4. Western Civilization I
5. Western Civilization II

See College of Liberal Arts and Sciences: General Requirements for a list of principal courses.

Social Sciences. Two courses are required:

1. PSYC 104 General Psychology
2. One principal course designated SC (Culture and Society)

Note: These should be completed by the end of the sophomore year. See College of Liberal Arts and Sciences: General Requirements for a list of principal courses.

Natural Sciences and Mathematics. Two courses from two different categories are required, including a 4- to 5-credit-hour laboratory science (a lecture course with an associated lab that constitutes 4 to 5 credit hours is accepted):

1. NB (Biological Sciences)
2. NE (Earth Sciences)
3. NP (Physical Sciences)

NM (Mathematical Sciences) does not satisfy the natural sciences requirement. See College of Liberal Arts and Sciences: General Requirements for a list of principal courses.

World Area Study. This requirement may be satisfied by completion of any one of the following options:

Option 1: Foreign Language. A student must complete courses through the fourth level (intermediate II) or beyond of a language or demonstrate proficiency in a language (as determined by the appropriate language department). Accounting students must complete courses through the second level. *AEC Credit:* International students who have successfully completed the English proficiency requirement of the Applied English Center may use this as completion of option 1. *Note:* Only 9 hours of AEC credit may be applied toward CLAS hours and graduation.

Option 2: Area Study. A student must complete four approved courses in any one of the following: Africa, East Asia, Latin America, Russia/Eastern Europe, or Western Europe. Accounting students must complete two courses in any one area. Lists of approved courses are online at www.business.ku.edu.

Option 3: Language/Area Study. A student must complete courses through the second level of a foreign language and then complete two courses of an area study in a related area. (See Foreign Language and Area Study).

Option 4: Area Study/IBUS/Study Abroad. Students may substitute up to two international business courses or a study abroad experience for one of two language/area study courses. The business international course(s) may be from any world area. Course(s) used to satisfy this requirement may not double-count toward the Accounting Advanced Business Elective requirement. For more information about the combinations that may be used, see the Prebusiness guide or the School of Business handbook.

Option 5: Co-major. Students may choose an interdisciplinary program in these areas as a co-major: (1) European Studies; (2) International Studies; or (3) Russian, East European, and Eurasian Studies. Students interested in European studies should contact the Center for European Studies, www.ku.edu/~ces. The International Studies co-major is administered through the Department of Political Science, www.ku.edu/~iscm. Students interested in REES should contact the Center for Russian, East European, and Eurasian Studies, www.crees.ku.edu.

Option 6: Second Bachelor's Degree/Nonbusiness Concentration. A student may complete a bachelor's degree in another school or an approved nonbusiness concentration. Requirements may be found at www.business.ku.edu.

Note: Accounting-only majors must complete two courses under option 1 or 2 above. Accounting majors who choose option 5 must complete the entire concentration.

Requirements for All Majors

After admission to the School of Business, all majors must complete the following courses:

Core Courses (19 hours)

BLAW 301 Legal Aspects of Business	3
DSCI 310 Management Science and Operations Management ..	3
ECON 524 Managerial Economics	4
FIN 310 Finance	3
MGMT 310 Organizational Behavior	3
MKTG 310 Marketing	3

Capstone Course (3 hours)

MGMT 498 Business Policy and Strategy	3
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Majors

Within the Bachelor of Science in Business degree, students may earn major(s) in accounting, finance, information systems, management and leadership, or marketing. In addition to the core courses and capstone course, students must complete the core courses for the major.

Accounting Major. The KU accounting program develops students with superior management and accounting skills and a well-rounded education in the liberal arts. This program produces qualified graduates who are responsive to the needs of the accounting profession in academia, government, industry, and public accounting. The primary objectives are to produce entrepreneurs with a fundamental understanding of accounting, provide an adequate foundation for graduate study in accounting, and provide an adequate foundation in accounting for securing positions in private accounting and industry. Those seeking positions in public accounting may need 150 hours of college education (state requirements vary) and should consider the Master of Accounting and Information Systems program.

All accounting majors must complete 6 hours of Advanced Business Electives. ABE courses are numbered 320 and higher and have prerequisites.

All accounting majors must complete two courses for World Area Study options 1 and 2.

The accounting major must complete the following core courses with a grade-point average of at least 2.5:

Accounting (18 hours)

ACCT 320 Financial Accounting II	3
ACCT 325 Managerial Accounting II	3
ACCT 330 Introduction to Taxation	3
ACCT 410 Financial Accounting III	3
ACCT 543 Introduction to Auditing	3
ACCT 311 Information Systems for Accountants	3

Finance Major. Students with finance majors often pursue careers in commercial or investment banking or become internal financial managers for corporations or government entities. The finance program is concerned with such areas as (1) investments and asset pricing—the behavior and determinants of security prices, including stocks, bonds, options, and futures; (2) corporate finance—the financing and investment decisions of firms; (3) corporate governance—how best to govern corporations while enhancing both corporate accountability and the creation of wealth; (4) the management and regulation of financial institutions; and (5) international finance. Finance majors also take courses in accounting, economics, and the liberal arts.

Every student contemplating a major in business should enroll in a mathematics course during the first semester at KU.

See page 59 for a placement table for initial enrollment in mathematics courses.

See pages 61-63 of this catalog for a list of principal courses.

The finance major must complete the following core courses with a grade-point average of at least 2.5:

Finance (21 hours)

ACCT 321 Intermediate Accounting for Finance (3) or	
ACCT 410 Financial Accounting III (3)	3
FIN 410 Investment Theory and Applications	3
FIN 415 Corporate Finance	3
FIN 320 or higher electives	12

Information Systems Major. The information systems major exposes students to a wide range of studies focused on the effective use of information technologies in settings typical of business, governmental, and not-for-profit organizations. Students gain a comprehensive understanding of specific technologies as well as an appreciation of challenges involved with the application of such technologies in dynamic environments. The information systems major equips graduates with both technical and managerial skill sets needed to begin careers in major business and governmental entities or with major U.S. information systems consulting firms.

The information systems major must complete the following core courses with a grade-point average of at least 2.5:

Information Systems (21 hours)

IST 320 Fundamentals of Software Development	3
IST 325 Systems Analysis and Design	3
IST 326 Database Management Systems	3
IST 410 IT Project Management	3
IST 330 Fundamentals of Computer Networking	3
IST 320 or higher electives	6

Management and Leadership Major. The management and leadership major gives students the knowledge and skills to be successful leaders and managers of people and organizations. Students learn to design and modify organizational structure, strategy, and processes to enhance organization performance in a socially and ethically responsible manner. They learn how to influence and direct change through a better understanding of organization politics, vision, and values. Students learn to influence and lead others effectively through skill development in communication, motivation, and conflict resolution. They develop self-awareness and an appreciation for individual differences, leading to more successful work relations. They learn to lead and follow in team settings and to use team-based problem-solving skills. Students learn to create competent and committed teams and organizations through the use of effective systems for employee hiring, development, compensation, and performance management. They also learn about the challenges of competing globally, including how to successfully adapt organizational structures, processes, and functions such as production, marketing, finance, and human resources so that they function more effectively cross-culturally. Student learning is enhanced through supporting activities such as clubs, consulting projects, case competitions, and study abroad opportunities.

The management and leadership major must complete the following core courses with a grade-point average of at least 2.5:

Information Systems (21 hours)

MGMT 410 Human Resources Management	3
MGMT 437 Personal Skills for Managing People	3
MGMT 455 General Management Processes and Change	3
MGMT 480 International Management	3
Nine hours of courses at the 400 level or above with MGMT or IBUS as a prefix, or BLAW 505	9

Marketing Major. The marketing major gives students the concepts and tools needed to succeed as marketing managers skilled in the creation, evaluation, and refinement of marketing programs that lead to valuable exchanges between channel partners, firms, and customers. Core concepts and tools are primarily provided through four required foundation courses: Marketing Management, Consumer Behavior, Marketing Research, and Marketing Strategy. The major offers numerous electives to reflect the breadth of the marketing function and to allow students to tailor their programs to individual preferences and career goals. Such opportunities as the marketing club, consulting projects, case competitions, and study abroad further enhance the learning experience.

The marketing major must complete the following core courses with a grade-point average of at least 2.5:

Marketing (21 hours)

MKTG 411 Introduction to Consumer Behavior	3
MKTG 415 Marketing Research for Managers	3
MKTG 435 Marketing Strategy	3
MKTG 320 or higher electives	12

Business Concentrations. Students may choose to complete a business concentration. Concentrations are a minimum of 12 hours and are available in human resources, information systems, and international business. For specific concentration requirements, students should consult the *Undergraduate Student Handbook* or the school's Web site.

C.P.A. Certification. The Master of Accounting and Information Systems degree meets requirements for taking the C.P.A. examination in Kansas. Admitted M.A.I.S. students may take graduate courses during their last undergraduate semester. To be admitted to the M.A.I.S. program, students must apply and complete the Graduate Management Admissions Test. Students considering the graduate program are encouraged to complete examination and application materials before the first semester of the senior year. For more information on requirements to sit for the C.P.A. examination and to qualify for the certificate and permit to practice with reduced experience, see Master of Accounting and Information Systems in the University of Kansas *Graduate School Catalog*.

Minor in Business

The business minor program complements majors in other departments by providing a general overview of marketing, finance, accounting, management, and decision sciences. The minor requires completion of 18 hours (six courses) with a grade-point average of 2.0 or higher.

ACCT 205 Survey of Accounting (or ACCT 200)	3
IST 205 Survey of Information Systems (or IST 301)	3
MGMT 305 Survey of Management	3
DSCI 305 Survey of Decision Making in Business	3
MKTG 305 Survey of Marketing (or MKTG 310)	3
FIN 305 Survey of Finance (or FIN 310)	3

Graduation Requirements

Hours Required for Graduation. A minimum of 124 credit hours is required for graduation. Of the 124 hours, a student must earn at least 45 junior/senior hours and 30 residency hours (business and economics completed at KU after admission to the school). At least 50 percent of all professional course

work must be completed at KU for the student to be eligible for graduation.

The 124-hour minimum to graduate is increased by the following:

- Completion of MATH 002 or any developmental course numbered below 100.
- More than 4 hours in physical education courses (HSES 112 and below).
- More than 4 hours of music organization courses.
- Any repeated courses for which a student has already received credit.
- All subsequent credits earned at a community college or other two-year institution after a student has completed a total of 64 community college credit hours.

See Transfer Credit below. See also Maximum Community College Credit Allowed and Transfer of Credit in the General Regulations chapter.

Grade-point Average Required for Graduation. To be eligible to graduate from the School of Business with any major, a student must earn a grade-point average of 2.2 (1) in total hours attempted from all schools (including Independent Study through KU Continuing Education), (2) in all professional (business and economics) courses attempted from all schools, (3) in total hours attempted at KU, and (4) in all professional hours attempted at KU. Accounting, finance, information systems, management and leadership, and marketing majors also must earn minimum grade-point averages of 2.5 in their respective core courses.

Transfer Credit. At least 50 percent of all professional course work must be completed at KU for the student to be eligible for graduation.

Sixty-four-hour Rule. Students may transfer up to 64 hours of community college course work. All subsequent credits earned at a community college or other two-year institution add hours to the 124-hour minimum needed to graduate.

Tentative Evaluation of Credit. Before enrolling in a non-KU course, students must submit KU's standard form, Request for Tentative Evaluation of Credit, to Student and Academic Services for approval.

Independent Study through KU Continuing Education. After admission to the school, students may complete up to 6 hours of Independent Study through KU Continuing Education. Prior approval from the school is required.

Repeating Courses. After admission to the school, students may not repeat any professional course graded D or higher. See Repetition of Courses in the General Regulations chapter of this catalog.

Honors Programs

University Honors Program. Prebusiness majors who meet admission requirements for the University Honors Program are strongly encouraged to participate in it. Its small, challenging classes provide an excellent opportunity for business majors to develop a strong base in liberal arts and sciences. Because its requirements fit well with the school's distribution requirements, the program fits easily into the normal four-year program. For information, see University Honors Program in the College of Liberal Arts and Sciences: General Requirements chapter of this catalog or contact the program director.

Dean's Certificate in International Business. This certificate is awarded to students who achieve a superior level of expertise in international business. It does not appear on the diploma or transcript. Dean's certificate forms may be obtained from Student and Academic Services. The requirements are

- Advanced foreign language study through Intermediate II (as defined by the relevant department) and the business language course where available (prerequisites may apply).
- Standardized foreign language proficiency test with a score of Intermediate High or above.
- Two area studies courses (an approved list of courses is available on the school's Web site) focusing on a single geographic area related to language competency completed with a B or higher in each course (*cannot be double-counted with general education requirements*).
- At least three advanced international business electives completed with a B or higher in each course.
- A study abroad experience or an internationally oriented internship specifically approved for this certificate in the geographic area corresponding to the language and area study courses.

Business Courses

Accounting Courses

ACCT 200 Financial Accounting I (4). Accounting 200 is an introduction to the concepts of business and the measurement systems used to control and evaluate business activities. This course is designed to be of interest to all students regardless of discipline. Prerequisite: MATH 101 and ENGL 101. LEC

ACCT 201 Managerial Accounting I (3). A continuation of Financial Accounting I. A study of concepts of materials, labor, and overhead control; budget administration; cost accounting systems including standard costing; full costing and direct costing; income determine; differential costing; break-even analysis; accounting statement analysis; and use of return on investment as a basis for management decisions. Prerequisite: ACCT 200. LEC

ACCT 205 Survey of Accounting (3). This course is an introduction to financial and managerial accounting. It will introduce the concepts of business and the measurement systems used to control and evaluate business activities. It will also explore product costing systems and the use of accounting data as a basis for management planning and decision making. (Not open to students with credit in ACCT 200.) LEC

ACCT 300 Special Topics in Accounting: ____ (1-5). This is a variable-topic course open to undergraduates meeting the prerequisites for the specific topic being offered. Its purpose is to allow the occasional offering of accounting topics not covered by established courses. Enrollment is not limited to School of Business students. Prerequisite: Determined for each topic by instructor. LEC

ACCT 303 Introduction to the Accounting Profession (1). This course will focus on Accounting as a profession. Prospective and current accounting students will be exposed to a variety of topics. These include, but are not limited to, career options in Accounting, the CPA exam, ethics in the profession, current issues in Accounting, professional standards, the Accounting major, and the five-year Accounting program. Prerequisite: Acct 200 or coenrollment in Acct 200. LEC

ACCT 311 Information Systems for Accountants (3). This course provides an overview of how to understand, analyze, and control computerized information systems, and is designed to provide the computer tools and knowledge so that today's business or accounting student will be tomorrow's successful and complete manager, consultant, accountant, and/or auditor. The topics covered in this course will include computer technology, internal control in a computer environment, computer auditing, systems analysis and design, database systems, networking, electronic commerce, and specific systems applications. Hands on experience will be obtained through projects and various software packages. This course will count as an advanced business elective. Prerequisite: ACCT 201 and IST 301. Enrollment restricted. LEC

ACCT 320 Financial Accounting II (3). A study of generally accepted accounting principles (GAAP) underlying the preparation and interpretation of general-purpose financial statements with emphasis on the principles of revenue recognition, matching revenues and related costs, and the determination of proper balance sheet valuations

The Howey Room in Summerfield Hall offers a large study area for students.

The 2006 Fiske Guide to Colleges names KU's undergraduate programs in business as standouts. "Business programs receive rave reviews from students," the Guide adds.

of assets and liabilities. The asset side of the balance sheet is the primary emphasis though the entire financial statements are used in examples throughout the course. Prerequisite: ACCT 201. LEC

ACCT 321 Intermediate Accounting for Finance (3). An intermediate accounting course with emphasis on interpretation of general-purpose financial statements and the related disclosure notes. Includes understanding interrelationships among the various financial statements and analyzing the effects of transactions on the financial statements. Common and significant accounts/transactions will be analyzed, especially those relating to the financing and equity sections of the financial statements. Not open to accounting majors with credit in ACCT 320. Prerequisite: FIN 310. LEC

ACCT 325 Managerial Accounting II (3). An analysis of cost systems and their application in the determination, analysis and control of manufacturing and distribution costs. Emphasis is on managerial planning and control. Prerequisite: ACCT 201. Enrollment restricted. LEC

ACCT 330 Introduction to Taxation (3). A study of the major concepts related to taxation with emphasis on the federal income tax for individuals including the implications of being a sole proprietor, partner of a partnership, and a corporate shareholder. Major topics covered include: different types of taxes; formation of the tax law; gross income; deductions; the tax formula; tax credits; filing status; tax treatment for capital gains and losses; and selected nontaxable transactions. Prerequisite: ACCT 320. Enrollment restricted. LEC

ACCT 335 Introduction to Income Tax (3). An introduction to basic concepts of income tax and how the tax law is formed. While tax problems of an individual are considered, emphasis is placed on tax factors to consider when conducting a business either as a single proprietor, corporation, or partnership. Not open to students with credit in ACCT 330. This course is for non-accounting majors. Prerequisite: ACCT 201. Enrollment restricted. LEC

ACCT 400 Special Topics in Accounting: ____ (1-5). This is a variable-topic seminar. Its purpose is to allow the occasional offering of accounting topics not covered by established courses. Prerequisite: Determined for each topic by the instructor. Enrollment restricted. LEC

ACCT 410 Financial Accounting III (3). A continuation of the study of generally accepted accounting principles (GAAP) underlying the preparation and interpretation of general-purpose financial statements. The focus of this course is on the liability and equity sections of the balance sheet, including such topics as loans, bonds, leases, pensions, accounting for income taxes, equity transactions, employee stock options, earnings per share, and cash flows. Application of many of the authoritative accounting pronouncements is illustrated. Prerequisite: ACCT 320. Enrollment restricted. LEC

ACCT 500 Individual Research in Accounting: ____ (1-5). Individual study of selected topics in business not otherwise available to the student. Topics selected to be determined by the special interests and objectives of the student in consultation with a faculty member who will supervise the reading and research. Prerequisite: DSCI 310, FIN 310, MGMT 310, and MKTG 310; approval of the Area Director. Enrollment restricted. LEC

ACCT 543 Introduction to Auditing (3). The fundamental concepts of audit risk, evidence accumulation and materiality are applied to financial statement audits using established accounting principles as the criterion. Audit objectives and procedures are studied in relation to the opinion which the auditor expresses on clients' financial statements. Financial statement audits are compared with other types of engagements performed by public accountants, and with other types of audits, such as compliance and operational audits. Prerequisite: IST 311 and ACCT 410. Enrollment restricted. LEC

ACCT 545 Advanced Taxation (3). Introduction to taxation for corporations, partnerships, S corporations and limited liability companies. The course will also include coverage of property transactions, methods of accounting, tax-related investment decisions, and selected tax issues. Prerequisite: ACCT 330. Enrollment restricted. LEC

ACCT 599 Internship in Accounting (1-3). Internships provide opportunities for students to combine their academic education with a meaningful experience in the business world. Accounting internships allow students to explore career pathways in accounting, further their professional growth, expand professional networks, and increase the relevancy of their academic course work. The internship course combines job-related activities of the accounting internship position with a set of academic requirements. These requirements include academic assignments as well as a pre- and post-internship seminar held in the semester before and after the semester in which the internship occurs. Internships for credit must be approved by the Director of the Internship Program prior to the internship experience. Students may not receive more than three hours of internship credit from any of the following, BUS 599, ACCT 599, FIN 599, IBUS 599, IST 599, MGMT 599, or MKTG 599. ACCT 599 may count as an Accounting elective for students majoring in Accounting. Prerequisite: Approval of the internship; two of the following: DSCI 310, FIN 310, MGMT 310, MKTG 310. Enrollment restricted. LEC

● Business Courses

BUS 300 Special Topics in Business: ____ (1-5). This is a variable-topic course open to undergraduates meeting the prerequisites for the specific topic being offered. Its purpose is to allow the occasional offering of business topics not covered by established courses. Enrollment is not limited to School of Business students. Prerequisite: Determined for each topic by instructor. LEC

BUS 303 Career Planning and Job-search Strategies (1). This course will introduce students to the fundamentals of organizing a personal employment search strategy. Emphasis will be placed on the assessment of individual goals and talents, job markets, evaluation, and employment search strategies. It is highly recommended that students take this course during their junior year. Course is graded satisfactory/unsatisfactory. Course counts as an activity course. Prerequisite: Junior standing (60 hours completed). LEC

BUS 305 Information Sources for Business Research (1). This course is intended to prepare you for the rapidly changing environment of business information retrieval, using both print and electronic information sources. Course sessions will cover both (1) the conceptual analysis, selection, and use of business information sources and (2) research strategies and techniques in locating information on your topic. The course will focus on your ability to develop critical thinking skills in researching your topic throughout the semester. LEC

BUS 330 Directed Study in Business Topics (1-3). Individual study of selected topics in business administration not otherwise available to non-business majors. Topics selected will be determined by special interest and objectives of the student in consultation with the faculty member who will supervise the directed study or research. Prerequisite: 3.0 grade-point average, major in a field other than business administration and/or accounting, and permission of instructor offering the directed study and of the director of the undergraduate program. IND

BUS 400 Special Topics in Business: ____ (1-5). A special variable-topic seminar open to seniors and graduate students meeting the requirements established by the faculty members offering the particular seminar. Its purpose is to allow the occasional offering of management-related topics not adequately covered in any regular course available to students of the School of Business. Prerequisite: Determined for each topic by instructor. Enrollment restricted. LEC

BUS 500 Individual Research in Business (1-5). Individual study of selected topics in business not otherwise available to the student. Topics selected to be determined by the special interests and objectives of the student in consultation with a faculty member who will supervise the reading and research. Prerequisite: DSCI 310, FIN 310, MGMT 310, and MKTG 310; 3.0 professional grade point average and approval of proposed plan of study by the instructor. Enrollment restricted. IND

BUS 599 Internship in Business Administration (1-3). Internships provide opportunities for students to combine their academic education with a meaningful experience in the business world. Internships allow students to further their professional growth, explore career pathways, expand professional networks, and increase the relevancy of their academic course work. The internship course combines job-related activities of the internship position with a set of academic requirements. These requirements include academic assignments as well as a pre- and post-internship seminar held in the semester before and after the semester in which the internship occurs. Internships for credit must be approved by the Director of the Internship Program prior to the internship experience. Students may not receive more than three hours of internship credit from any of the following, BUS 599, ACCT 599, FIN 599, IBUS 599, IST 599, MGMT 599, or MKTG 599. BUS 599 may count as an Advanced Business Elective outside the student's major field of study. Prerequisite: Approval of the internship; two of the following: DSCI 310, FIN 310, MGMT 310, MKTG 310. Enrollment restricted. LEC

BUS 701 Organizational Behavior (2).

BUS 702 Managerial Economics (2).

BUS 703 Financial Accounting (2).

BUS 704 Statistical Decision Making (2).

BUS 705 Human Resources Management (2).

BUS 706 Managerial Information Systems (2).

BUS 707 Global Economic Environment of Business (2).

BUS 708 Introduction to the Legal Environment of Business (2-3).

BUS 709 Financial Management (2-3).

BUS 710 Managerial Accounting (2).

BUS 711 Marketing Management (2).

BUS 712 Total Quality Management Immersion Week (1).

BUS 713 Market-based Management Immersion Week (1).

BUS 714 Entrepreneurship Immersion Week (1).

BUS 715 Managing in a Global Environment (1).

BUS 716 Technology Management and Internet Operations Immersion Week (1).

BUS 719 Operations Management (2).

The Wagnon Room is an open computer laboratory primarily for students enrolled in School of Business courses.

The Kyou portal gives Lawrence and Edwards Campus students access to many online services and resources. Visit <https://students.ku.edu>.

- BUS 720 Strategic Management (2).
- BUS 723 Professional Development Skills I (1).
- BUS 724 Professional Development Skills II (1).
- BUS 730 Management Accounting for Advanced Technology (2).
- BUS 731 Financial Statement Presentation and Analysis I (2).
- BUS 732 Financial Statement Presentation and Analysis II (2).
- BUS 733 Business Taxation (3).
- BUS 734 E-commerce: An Integrative Perspective (3).
- BUS 735 Systems Analysis and Design (3).
- BUS 736 Strategic Information Systems Planning (3).
- BUS 737 Systems Development (3).
- BUS 738 Database Management (3).
- BUS 739 Advanced Managerial Accounting—Quantitative and Economic Topics (3).
- BUS 740 Accounting Theory (3).
- BUS 741 Advanced Accounting Problems (3).
- BUS 742 Applied Accounting Theory (3).
- BUS 744 Advanced Auditing (3).
- BUS 745 Tax Research (3).
- BUS 746 Taxation for Business Entities (4).
- BUS 747 Tax Planning (3).
- BUS 748 Business Computer Networking (3).
- BUS 749 Developments in Software Technology (3).
- BUS 751 Investment Theory (2).
- BUS 752 Investment Analysis (2).
- BUS 753 Analysis of Financial Intermediaries (2).
- BUS 755 Real Estate Investment Analysis (2).
- BUS 756 Financial Risk Management (2).
- BUS 757 Business Valuation (3).
- BUS 758 Applied Portfolio Management (4).
- BUS 759 International Finance (2-3).
- BUS 760 Global Financial Risk Management I—Forwards, Futures, and SWAPs (2).
- BUS 761 Global Financial Risk Management II—Options (2).
- BUS 762 Business Investment (2).
- BUS 763 Business Financing (2).
- BUS 765 New Product Management (3).
- BUS 766 Consumer Behavior (3).
- BUS 767 Marketing Research (3).
- BUS 768 Marketing Communications (3).
- BUS 769 Strategic Marketing Planning and Decision Making (3).
- BUS 770 Metrics and Statistics in Marketing Research (3).
- BUS 771 Global Marketing (3).
- BUS 772 Sales Force Management (3).
- BUS 773 Service Marketing (2-3).
- BUS 774 Internet Marketing (2-3).
- BUS 780 Legal Aspects of Business Transactions: Contracts and Torts (2).
- BUS 781 Legal Aspects of Business Organizations (3).
- BUS 782 Commercial Law (3).
- BUS 785 Management Seminar (3).
- BUS 786 Business Forecasting Methods and Applications (4).
- BUS 787 Managing for Quality Improvement (3).
- BUS 788 Seminar in Decision Sciences: ____ (3).
- BUS 789 Statistical Process Control and Improvement (2-3).
- BUS 790 Contemporary Issues in Operations Management (3).
- BUS 791 Managing Customer Focused Enterprises (2-3).
- BUS 795 Special Topics in Business: ____ (2-5).

● Business Law Courses

- BLAW 300 Special Topics in Business Law:** ____ (1-5). This is a variable-topic course open to undergraduates meeting the prerequisites for the specific topic being offered. Its purpose is to allow the occasional offering of business law topics not covered by established courses. Enrollment is not limited to School of Business students. Prerequisite: Determined for each topic by instructor. LEC
- BLAW 301 Legal Aspects of Business (3).** A course designed to acquaint the student with the basic principles of law that are applicable to business transactions in the modern business world and the legal systems. Prerequisite: Junior standing (60 hours completed). LEC
- BLAW 400 Special Topics in Business Law:** ____ (1-5). This is a variable-topic seminar. Its purpose is to allow the occasional offering of busi-

ness law topics not covered by established courses. Prerequisite: Determined for each topic by the instructor. Enrollment restricted. LEC

BLAW 500 Individual Research in Business Law (1-5). Individual study of selected topics in business law not otherwise available to the student. Topics selected to be determined by the special interests and objectives of the student in consultation with a faculty member who will supervise the reading and research. Prerequisite: DSCI 310, FIN 310, MGMT 310, and MKTG 310; 3.0 professional grade point average and approval of proposed plan of study by the instructor. Enrollment restricted. LEC

BLAW 505 Legal Aspects of the Management Process (3). A course designed to acquaint students with the basic principles of partnerships, agencies, and corporations with special emphasis on the problems encountered by managers and directors in operating a corporation. The course should acquaint a student with how to create and operate a corporation in light of current federal and state enactments. This course is in the Business Law area. Prerequisite: BLAW 301. Enrollment restricted. LEC

BLAW 510 Legal Aspects of Real Property Transactions (3). This course will address legal matters of concern to property owners, real estate agents and brokers, developers, renters, property managers, contractors, architects, planners, and lenders regarding real estate transactions. Concentrating on the general subjects of (1) the nature of real property, (2) transfer and financing of real estate, (3) land use and regulations, and (4) landlord and tenant relations, the course will address specific topics such as estates and interests in land, forms of ownership, agency and brokerage, and tax attributes of real estate investments, and will consider pertinent statutes and legal documents frequently used in real estate transactions. This course is in the Business Law area. Prerequisite: BLAW 301. Enrollment restricted. LEC

BLAW 515 Commercial Law (3). An advanced course in legal aspects of business with emphasis on the Uniform Commercial Code. This course is in the Business Law area. Prerequisite: BLAW 301. Enrollment restricted. LEC

● Decision Sciences Courses

DSCI 300 Special Topics in Decision Science: ____ (1-5). This is a variable-topic course open to undergraduates meeting the prerequisites for the specific topic being offered. Its purpose is to allow the occasional offering of decision science topics not covered by established courses. Enrollment is not limited to School of Business students. Prerequisite: Determined for each topic by instructor. LEC

DSCI 301 Statistics (4). An introduction to statistical inference techniques with emphasis on the application of these techniques to decision making in a firm. Topics include probability theory, random variables, probability distribution functions, estimation, test of hypothesis, regression, correlation, and introduction to statistical process control. Prerequisite: Calculus II and IST 301 (co/pre-requisite). LEC

DSCI 305 Survey of Decision Making in Business (3). An introduction to decision making under the uncertainty encountered in business and in everyday life. Covers selected topics in probability, statistics, economics, and operations research, and their application to complex problems in financial management, marketing, operations management, supply chain management, and quality management; as well as risks affecting everyday life, such as personal decisions in regard to career, marriage, and wealth management. LEC

DSCI 310 Management Science and Operations Management (3). Introduces some of the most widely used models in management science. Topics will include decision making under uncertainty and resource allocation models. Also, some topics in production and operations management will be covered. Prerequisite: IST 301 and DSCI 301. Enrollment restricted. LEC

DSCI 400 Special Topics in Decision Sciences: ____ (1-5). This is a variable-topic seminar. Its purpose is to allow the occasional offering of decision science topics not covered by established courses. Prerequisite: Determined for each topic by instructor. Enrollment restricted. LEC

DSCI 405 Advanced Production and Operations Management (4). A further study of problems encountered in production from a managerial perspective employing the methodology of management science. Topics included in the course are location of facilities, design of product lines, replacement of facilities, quality control, production planning, production and inventory control, and scheduling. This course is in the Management Science and Operations Management area. Prerequisite: DSCI 310. Enrollment restricted. LEC

DSCI 410 Advanced Management Science (3). Decision making under uncertainty and resource allocation models were introduced in DSCI 310. These topics will be covered in greater depth in this course. Applications of these models to complex problems in business will be emphasized. Cases illustrating the use of these models will also be covered. This course is in the Management Science and Operations Management area. Prerequisite: DSCI 310. Enrollment restricted. LEC

DSCI 415 Advanced Statistics (3). This course is concerned with the analysis and interpretation of data encountered in business and economics. One goal of the course is to develop skills in the analysis of data that can be used to solve problems students are likely to encounter on

the job. The course attempts to develop an attitude toward data analysis that can be usefully applied in a wide variety of real life situations. A variety of statistical tools are covered. In particular, the multiple regression model is covered with an emphasis on how that model can be used in situations involving economic data. Data analysis techniques are illustrated with examples and case studies using computers. This course is in the Management Science and Operations Management area. Prerequisite: DSCI 301 or MATH 628. Enrollment restricted. LEC

DSCI 420 Customer-focused Operations (3). The purpose of this course is to build the conceptual framework which drives an organization striving to operate in a customer-focused mode. This requires an integration of basic principles of marketing and operations in order to define the value-added in each of an organization's products and/or services, to use this information to define the value-added in work, and to use this definition to improve the actual work. To do this effectively, requires leadership, empowerment, focused data, and a system view. The basic principles of each requirement will be discussed as well as their integration into a unified whole. This course is in the Management Science and Operations Management area. Prerequisite: DSCI 310 and MKTG 310. Co-enrollment allowed. Enrollment restricted. LEC

DSCI 430 Introduction to Supply Chain Management (3). This course introduces the student to supply chain management. Students are presented the key concepts of supply chain management, the application of these concepts and are provided with the managerial knowledge of supply chain management through class discussions and case studies. Students discover the impact of information technologies, strategic alliances and logistics on supply chain management and the performance implication of supply chain management. Prerequisite: DSCI 310, FIN 310, and MKTG 310. Enrollment restricted. LAB

DSCI 460 Financial Modeling and Risk Analysis (3). An introduction to the concepts, methodologies, and applications of risk analysis in finance. Students will be required to use Excel and Crystal Ball, a spreadsheet add-in program, to design and build financial models for risk analysis. See the Web site www.crystalball.com for more information about the software to be used. (Same as FIN 460.) Prerequisite: FIN 310. Enrollment restricted. LEC

DSCI 500 Individual Research in Decision Sciences (1-5). Individual study of selected topics in decision sciences not otherwise available to the student. Topics selected to be determined by the special interests and objectives of the student in consultation with a faculty member who will supervise the reading and research. Prerequisite: DSCI 310, FIN 310, MGMT 310, and MKTG 310; 3.0 professional grade point average and approval of proposed plan of study by the instructor. Enrollment restricted. LEC

● Finance Courses

FIN 300 Special Topics in Finance: ____ (1-5). This is a variable-topic course open to undergraduates meeting the prerequisites for the specific topic being offered. Its purpose is to allow the occasional offering of finance topics not covered by established courses. Enrollment is not limited to School of Business students. Prerequisite: Determined for each topic by instructor. LEC

FIN 305 Survey of Finance (3). The purpose of this course is to help the student develop a basic understanding of Finance. Topics covered include (1) financial instruments and the markets in which they are traded, (2) financial planning and analysis, (3) the cost and time-value of money, and (4) the fundamentals of investor decision-making. (Not open to students with credit in FIN 310.) LEC

FIN 310 Finance (3). This course consists of the analysis of problems relating to estimating the financial needs of an enterprise and to evaluating the alternative means of providing and utilizing both temporary and permanent capital. The relationship of current financial decisions with financial policy is analyzed from the viewpoint of management and the stockholder. Prerequisite: Prior completion of ACCT 200; prior completion or co-enrollment in DSCI 301. LEC

FIN 400 Special Topics in Finance: ____ (1-5). This is a variable-topic seminar. Its purpose is to allow the occasional offering of finance topics not covered by established courses. Prerequisite: Determined for each topic by instructor. Enrollment restricted. LEC

FIN 410 Investment Theory and Applications (3). This course emphasizes the theoretical and practical aspects of investments. Financial instruments such as common stocks, bonds, options, futures, and mutual funds are analyzed in a theoretical context using efficient market theory, capital market theory, option pricing, and stock valuation models. Experience in practical applications is generally obtained through the use of case studies. Prerequisite: FIN 310. Enrollment restricted. LEC

FIN 415 Corporate Finance (3). Building on the concepts of present value, the focus of this course is on the theory of and methods for corporate asset selection. The course includes coverage of important technical issues such as risk analysis, evaluation of mutually exclusive projects, capital rationing, and leasing. Some attention usually will be devoted to the topic of project financing. Prerequisite: FIN 310. Enrollment restricted. LEC

FIN 420 International Finance (3). The economic determinants of exchange rates are discussed. This is followed by an examination of the financing problems faced by the multinational corporation and the international portfolio manager, arising from the international nature of their environment. Topics include spot, forward, futures, and options markets in foreign currency, international risk management, purchasing power parity, interest rate parity, covered interest arbitrage, and contemporary issues in international financial management. Prerequisite: FIN 310. Enrollment restricted. LEC

FIN 425 Global Financial Risk Management (3). This course examines the use of forwards, futures, SWAPs options, and related financial derivatives for hedging arbitrage, and speculative purposes in the global environment. The course focuses on understanding how firms can manage interest rate risk, exchange rate risk, and commodity price risk using these derivatives. The emphasis is on understanding the motivation issues, and the techniques behind financial engineering with these derivatives, as practiced by firms and individuals to maximize value in global markets. This course is in the International area. Prerequisite: FIN 310. Enrollment restricted. LEC

FIN 430 Financial Markets and Intermediaries (3). Study focuses on the principle elements of theoretical and practical controversies in the area of financial institutions, concentrating on several types of financial intermediaries. Prerequisite: FIN 310. Enrollment restricted. LEC

FIN 435 Commercial Bank Management (3). This course involves the study of the theory and practice of the financial management of commercial banking firms. Its focus is on asset, liability and capital management policies and decisions, set within the legal and economic environment. Prerequisite: DSCI 310; FIN 310; and MKTG 310. Enrollment restricted. LEC

FIN 440 Insurance (3). The central focus of study is on the role of insurance in business and society. The approach is, in general, from the standpoint of the person confronted with problems of risk management and loss prevention in coping with insurable (pure) risk situations. The course is designed to further the ability of the student to analyze and evaluate programs undertaken to control the loss of income which results from the destruction of property values. Prerequisite: FIN 310. Enrollment restricted. LEC

FIN 450 Applied Portfolio Management (4). This course provides the student with practical portfolio experience. Students actually and collectively manage funds in an endowment account of the benefit of the University and the School of Business. Experienced instructors, speakers, and financial analysts from Wall Street give the class a hands-on real life experience in analyzing and managing securities. The student will be familiarized with many different applied valuation procedures such as cash flows and growth models in an event driven context, as well as market capitalization techniques. Individual securities and stock options are analyzed on a continuing basis. Prerequisite: Fin 410. Enrollment restricted. LEC

FIN 460 Financial Modeling and Risk Analysis (3). An introduction to the concepts, methodologies, and applications of risk analysis in finance. Students will be required to use Excel and Crystal Ball, a spreadsheet add-in program, to design and build financial models for risk analysis. See the Web site www.crystalball.com for more information about the software to be used. (Same as DSCI 460.) Prerequisite: FIN 310. Enrollment restricted. LEC

FIN 462 Mergers and Acquisitions (3). This is a course about corporate "deals" - corporate transactions that change who owns a business or who controls it. Naturally, the course covers classical mergers and acquisitions, including the financial, strategic and regulatory issues. However, it also covers corporate governance and control, IPO's (initial public offerings), financial distress, and venture capital and private equity. Finally, deals require deal-makers - the investment bankers. We'll touch on aspects of investment banking, an industry that majors in finance and MBA's often work in or have contact with. Prerequisite: FIN 310. Enrollment restricted. LEC

FIN 464 Security Analysis (3). A purpose of this course is to offer candidates for the Bachelor's in Business Administration degree a well-rounded exposure to the theory and practice of security analysis. The course emphasizes the usefulness of sound investment theory as a backdrop for understanding asset pricing in dynamic financial markets. The course is meant to form a bridge between a student's initial exposure to investment theory and the practice of stock selection and active portfolio management. Prerequisite: FIN 410. Enrollment restricted. LEC

FIN 466 Entrepreneurial Finance (3). The entrepreneurial finance course will focus on valuing and financing young high-growth potential private companies (start-ups). The objective is for the students to learn how to make investment and financing decisions (and how to distinguish good from bad investments) in an environment characterized by very high degrees of uncertainty and information asymmetry. We will address this topic from two distinct perspectives: the perspective of users (entrepreneurs) and suppliers (venture capitalists and other private equity investors) of capital. In the beginning of the semester we will first take the perspective of the individual entrepreneur (or manager). We will focus on identifying good ideas (evaluating pro-

jects using different valuation techniques), separating them from bad ideas, and placing a quantitative value on these opportunities. This part will review different valuation methods used to value start-up companies. We will also deal with issues such as forecasting cash flows of a start-up firm and ways to grow the firm using internal resources. Then we will turn our attention to the next step in the entrepreneurial process - raising capital to take advantage of good opportunities. Specifically we will consider venture capital (independent venture capitalists, angels, and corporate venture capitalists) as a source of financing for start-ups. This part will provide overview of the venture capital industry (players, organizational forms, contracting) and introduce students to the challenges of structuring venture capital deals. In addition, we will cover other ways of raising capital to aid the growth of the entrepreneurial firm. The focus will be on the private debt market as well as other alternative sources of financing for start-up firms (SBA loans, SBICs, mezzanine financing, L/Cs, etc.). Finally, we will study the ways to harvest the ventures (IPOs, acquisitions, LBOs). Prerequisite: FIN 415. Enrollment restricted. LEC

FIN 468 Corporate Financial Policy (3). The course will have three primary objectives. First, students will review basic valuation methods, including instruction on the location of relevant resources. Some advanced valuation techniques will be examined, e.g., APV, multiples and capital cash flow. Finally, students will work to apply these techniques to particular corporate financial decisions. Prerequisite: FIN 310. Enrollment restricted. LEC

FIN 500 Individual Research in Finance (1-5). Individual study of selected topics in finance not otherwise available to the student. Topics selected to be determined by the special interests and objectives of the student in consultation with a faculty member who will supervise the reading and research. Prerequisite: DSCI 310, FIN 310, MGMT 310, and MKTG 310; 3.0 professional grade point average and approval of proposed plan of study by the instructor. Enrollment restricted. LEC

FIN 599 Internship in Finance (1-3). Internships provide opportunities for students to combine their academic education with a meaningful experience in the business world. Finance internships allow students to explore career pathways in accounting, further their professional growth, expand professional networks, and increase the relevancy of their academic course work. The internship course combines job-related activities of the finance internship position with a set of academic requirements. These requirements include academic assignments as well as a pre- and post-internship seminar held in the semester before and after the semester in which the internship occurs. Internships for credit must be approved by the Director of the Internship Program prior to the internship experience. Students may not receive more than three hours of internship credit from any of the following, BUS 599, ACCT 599, FIN 599, IBUS 599, IST 599, MGMT 599, or MKTG 599. FIN 599 may count as a Finance elective for students majoring in Finance. Prerequisite: Approval of the internship; FIN 310 and one of the following: DSCI 310, MGMT 310, or MKTG 310. Enrollment restricted. LEC

● Information Systems Courses

IST 101 Software Applications for Business: MS Word and PowerPoint (1). This course will focus on two software applications widely used by business professionals. MS Word is a word processing application. MS PowerPoint is a presentation package. The course will cover basic and intermediate skills in both packages. The course will be taught online except for an initial introductory meeting. LAB

IST 102 Software Applications for Business: MS Excel (1). This course will focus on MS Excel, a spreadsheet application package widely used by business professionals. The course will cover basic and intermediate skills in MS Excel. The course will be taught online except for an initial introductory meeting. LAB

IST 103 Software Applications for Business: MS Access (1). This course will focus on MS Access, a database application package widely used by business professionals. The course will cover basic and intermediate skills in MS Access. The course will be taught online except for an initial introductory meeting. LAB

IST 205 Survey of Information Systems (3). This course focuses on the use of information systems in business. Topics will include components of information systems, types of information systems, development of information systems, and uses and benefits of information systems. Relevant technology issues such as security, privacy and ethics will also be introduced. In addition to content on information systems, the course will cover the basic principles of Microsoft Office. (Not open to students with credit in IST 301.) LEC

IST 301 Introduction to Information Systems (3). Information Systems have assumed a growing significance in the increasingly competitive business environment. This course introduces essential components of information systems from an organizational perspective. The course covers the role of information systems in organizations, the technical foundations of information systems, the design and management of information systems, and the effect of information systems on organizations. The course also exposes students to soft-

ware tools used to solve business problems. Prerequisite: ACCT 200 or coenrollment in ACCT 200. LEC

IST 312 Information Systems for Managers (3). This course provides an overview of how to understand, analyze, and design computerized information systems, and is designed to provide the computer tools and knowledge so that today's business student will be tomorrow's successful and complete manager and/or consultant. The topics covered in this course include computer technology, internal control in a computer environment, strategic information systems planning, systems analysis and design, database systems, networking, and various software packages. This course will count as an advanced business elective. Not open to students with credit in IST 311. Prerequisite: ACCT 201 and IST 301. Enrollment restricted. LEC

IST 320 Fundamentals of Software Development (3). This course provides an introduction to software development concepts and techniques. Students will develop an understanding of the software development process through hands-on programming assignments and projects. The course emphasizes problem solving, initiative, and teamwork within an information systems framework. Prerequisite: IST 301. Enrollment restricted. LEC

IST 325 Systems Analysis and Design (3). This will take students through the entire systems development life cycle from the first contact with a customer through analysis and design to the implementation of the customer's system. It will introduce the student to the field of systems analysis and design, basic systems analysis tools, and the procedures for conducting systems analysis. Topics covered will include the role of the systems analyst in the organization, concepts, philosophies and trends in systems analysis and design, and tools and techniques for such analysis. Prerequisite: IST 301. Enrollment restricted. LEC

IST 326 Database Management Systems (3). This course introduces the fundamental concepts and implementation of the database development process and relational database systems. The student will be exposed to database development issues, SQL methodology, and entity-relationship models. Prerequisite: IST 301. Enrollment restricted. LEC

IST 330 Fundamentals of Business Computer Networking (3). This course introduces business students to the terms and concepts of networking in the business environment. This course balances practical application and network theory. It examines common architecture models, transmission media, network topologies, and protocols in both local area network (LAN) and wide area network (WAN) environments. The course also delves into the operating characteristics of the Internet and various applicable protocol suites. Conceptual learning is supported by team exercises and projects. Prerequisite: IST 301. Enrollment restricted. LEC

IST 335 Information Security (3). During the semester, we'll introduce a wide range of topics associated with managing the security of information systems and related data in a business environment. Topics addressed include cryptography and security of operating systems, databases, networks. . . both wired and wireless, and telecommunications systems. We'll look into security issues related to application development and to the use of the Internet as a business medium. We'll review other elements of security: physical security, disaster recovery and business resumption planning, change control, and so forth. On successful completion of the course, I expect that each student will be better able to: a. Understand and appreciate risks associated with business information systems infrastructures and the dynamic nature of these threats. b. Evaluate various risks associated with information systems. c. Envision controls that might mitigate these risks. d. Possess the ability to effectively articulate the threats and need for appropriate controls to others, be they higher management, peers, or subordinates. Prerequisite: IST 301. Enrollment restricted. LEC

IST 400 Special Topics in Information Systems Technology: _____ (1-5). This is a variable-topic seminar. Its purpose is to allow the occasional offering of information systems technology topics not covered by established courses. Prerequisite: Determined for each topic by instructor. Enrollment restricted. LEC

IST 410 IT Project Management (3). Effective development of an information system depends on proper utilization of a broad range of information technology, including database management systems, operating systems, computer systems, and telecommunications networks. Additionally, the foundational concepts of project management must be understood and applied. This course addresses the multiphased process for developing information systems. Specifically, the course covers the phases from physical system design through the installation of working information systems. Hands-on experience is provided through a semester-long field project and various exercises in building, testing, and installing a system. Prerequisite: IST 320, IST 325, IST 326, and IST 330. Enrollment restricted. LEC

IST 500 Individual Research in Information Systems Technology (1-5). Individual study of selected topics in information systems technology not otherwise available to the student. Topics selected to be determined by the special interests and objectives of the student in consultation with a faculty member who will supervise the reading and research. Prerequisite: DSCI 310, FIN 310, MGMT 310, and MKTG 310; approval of the Area Director. Enrollment restricted. LEC

The Business Career Services Center helps students find professional internships and full-time employment.

See the Directory of Courses, pages 5-6, for help finding course descriptions.

The Timetable of Classes is online at www.timetable.ku.edu.

IST 599 Internship in Information Systems (1-3). Internships provide opportunities for students to combine their academic education with a meaningful experience in the business world. Information Systems (IS) internships allow students to explore career pathways in IS, further their professional growth, expand professional networks, and increase the relevancy of their academic course work. The internship course combines job-related activities of the IS internship position with a set of academic requirements. These requirements include academic assignments as well as a pre- and post-internship seminar held in the semester before and after the semester in which the internship occurs. Internships for credit must be approved by the Director of the Internship Program prior to the internship experience. Students may not receive more than three hours of internship credit from any of the following, BUS 599, ACCT 599, FIN 599, IBUS 599, IST 599, MGMT 599, or MKTG 599. IST 599 may count as an IS elective for students majoring in Information Systems. Prerequisite: Approval of the internship; two of the following, DSCI 310, FIN 310, MGMT 310, MKTG 310. Enrollment restricted. LEC

● International Business Courses

IBUS 300 Special Topics in International Business: _____ (1-5). This is a variable-topic course open to undergraduates meeting the prerequisites for the specific topic being offered. Its purpose is to allow the occasional offering of international business topics not covered by established courses. Enrollment is not limited to School of Business students. Prerequisite: Determined for each topic by instructor. LEC

IBUS 301 Business, Culture, and Society: Africa (3). This is an interdisciplinary course which will focus on the social, culture, and political environment for business in the countries of sub-Saharan Africa. The emphasis will be on the factors influencing and shaping the current and rapidly-changing political and economic contexts of African countries. The course is open to both business and nonbusiness students, and is designed to explore the connections between language and area-studies topics and the practice of business in Africa. The course will be organized around modules covering geography, language, culture and society, history, politics, and economics. Most of these modules will be covered by visiting faculty with specialization in those areas. There will also be guest lectures by government officials involved in managing and promoting business ties between the USA and Africa, as well as from practicing business people in the area who have had experience in African markets. Prerequisite: Sophomore standing (30 hours). LEC

IBUS 302 Business, Culture, and Society: East Asia (3). This course will be a team-taught interdisciplinary overview of issues related to business in East Asia. Directed primarily at sophomores and juniors, the course will be open to both business and nonbusiness majors. This course may be taken concurrently with language or area studies courses and is designed to reinforce the linkages between language and area studies, and international business. Faculty teaching the course will be drawn from the School of Business and the Department of East Asian Languages and Cultures. Prerequisite: Sophomore status (30 hours). LEC

IBUS 303 Business, Culture, and Society: Latin America (3). This course will be a team-taught interdisciplinary overview of issues related to business in Latin America. Directed primarily at sophomores and juniors, the course will be open to both business and nonbusiness majors. This course may be taken concurrently with language or area studies courses and is designed to reinforce the linkages between language, area studies, and international business. Faculty teaching the course will be drawn from the Business School, the Center of Latin American Studies, and the Department of Spanish and Portuguese. Prerequisite: Sophomore standing (30 hours). LEC

IBUS 304 Business, Culture, and Society: Russia and Eastern Europe (3). This course will be a team-taught interdisciplinary overview of issues related to business in the "transition economies" of the former Soviet Union and Eastern Europe. Directed primarily at sophomores and juniors, the course will be open to both business and nonbusiness majors. This course may be taken concurrently with language or area studies courses and is designed to reinforce the linkages between language, area studies, and international business. Faculty teaching the course will be drawn from the Business School and college departments associated with the Center for Russian and East European Studies (e.g., Political Science, History, Sociology, Geography, etc.) Prerequisite: Sophomore status (30 hours). LEC

IBUS 305 Business, Culture, and Society: Western Europe (3). This course will be a team-taught interdisciplinary overview of issues related to business in Western Europe. Directed primarily at sophomores and juniors, the course will be open to both business and nonbusiness majors. This course may be taken concurrently with language or area studies courses and is designed to reinforce the linkages between language, area studies, and international business. (Same as EURS 401.) Prerequisite: Sophomore standing (30 hours). LEC

IBUS 400 Special Topics in International Business: _____ (1-5). This is a variable-topic seminar. Its purpose is to allow the occasional offering of international business topics not covered by established

courses. Prerequisite: Determined for each topic by instructor. Enrollment restricted. LEC

IBUS 410 Introduction to International Business (3). To conduct International Business, a manager must understand the prevailing political, economic, legal and socio-cultural institutions in the relevant countries. In addition, s/he must also understand the institutional arrangements that countries have negotiated to govern cross-border flows of trade and investment capital, such as the World Trade Organization and the International Monetary Fund. This course provides an analysis of the institutional settings for international business and explores their implications for a multinational firm. Specific topics covered include, but are not limited to, the forces behind international economic integration and globalization of business, differences across countries, and the frameworks of international trade, investment and finance. Prerequisite: ECON 144. Enrollment restricted. LEC

IBUS 415 Business in Latin America (3). This course will focus on the business and managerial practices that have evolved in response to major characteristics of Latin American business environment. A survey of Latin American economic conditions (including inflation, stabilization, regional integration, and privatization) will set the stage for the examination of management practices that have developed in response to these conditions. Prerequisite: Completion of an intermediate macroeconomics course is strongly recommended or consent of instructor. Enrollment restricted. LEC

IBUS 420 Business in Japan (3). This course examines Japanese business in the context of both Japanese society and the global economic environment. An overview of the Japanese economy, with special emphasis on employment patterns and trends, will be combined with an examination of business-government relations and the role of Japanese culture on organizational behavior. Prerequisite: MGMT 310 or consent of instructor and junior status. Enrollment restricted. LEC

IBUS 425 Business in China (3). The course analyzes the unique aspects of the Chinese business environment and the major managerial issues that are likely to confront firms conducting business in the country. The first part of the course reviews the country's geography, history and culture, and examines its contemporary political process, economic structure, financial system, and legal and social institutions. The second part of the course examines important strategic and operational decisions such as market entry, contract negotiation, value chain management, choice of marketing strategies and techniques, and human resource management. Prerequisite or Co-requisite: IBUS 410. Enrollment restricted. LEC

IBUS 430 Business in Russia and East Europe (3). Following a brief study of nature of the (formerly) centrally planned economies, emphasis will be placed on the current transition to the market-based systems. Special focus will be placed on privatization, the evolution of labor and financial markets, and the legal and regulatory frameworks for conducting business. A comparative approach will be taken in the analysis of individual markets and performance. Prerequisite: Junior status unless a specific course is needed or consent of instructor. Enrollment restricted. LEC

IBUS 500 Individual Research in International Business (1-5). Individual study of selected topics in international business not otherwise available to the student. Topics selected to be determined by the special interests and objectives of the student in consultation with a faculty member who will supervise the reading and research. Prerequisite: DSCI 310, FIN 310, MGMT 310, and MKTG 310; 3.0 professional grade point average and approval of proposed plan of study by the instructor. Enrollment restricted. LEC

IBUS 599 Internship in International Business (1-3). Internships provide opportunities for students to combine their academic education with a meaningful experience in the business world. Internships in International Business (IB) allow students to explore career pathways in IB, further their professional growth, expand professional networks, and increase the relevancy of their academic course work. The internship course combines job-related activities of the IB internship position with a set of academic requirements. These requirements include academic assignments as well as a pre- and post-internship seminar held in the semester before and after the semester in which the internship occurs. Internships for credit must be approved by the Director of the Internship Program prior to the internship experience. Students may not receive more than three hours of internship credit from any of the following, BUS 599, ACCT 599, FIN 599, IBUS 599, IST 599, MGMT 599, or MKTG 599. IBUS 599 may count as an IB elective for students majoring in Management/International Business. Prerequisite: Approval of the internship; two of the following, DSCI 310, FIN 310, MGMT 310, MKTG 310. Enrollment restricted. LEC

● Management and Leadership Courses

MGMT 300 Special Topics in Management: _____ (1-5). This is a variable-topic course open to undergraduates meeting the prerequisites for the specific topic being offered. Its purpose is to allow the occasional offering of management topics not covered by established courses. Enrollment is not limited to School of Business students. Prerequisite: Determined for each topic by instructor. LEC

**Undergraduate
advising is
coordinated
through Student
and Academic
Services, 206
Summerfield Hall.**

**KU students can
access course
information
through Enroll &
Pay, [https://
sa.ku.edu](https://sa.ku.edu).**

MGMT 305 Survey of Management (3). This course is designed to acquaint students with traditional business management ideas, recent management thinking, and the contemporary application of both to the management functions of planning, organizing, leading and controlling. A survey of a wide variety of topics is offered, generally including goal setting, strategy formulation and implementation, managerial decision making, structure and design of organizations, corporate culture, organizational change and development, human resources management, managing diversity, leading, motivation, communication, teamwork, quality control, management control systems, operations and service management, entrepreneurship and small business management, managerial ethics, corporate social responsibility, and management in the global environment. Prerequisite: ENGL 101. LEC

MGMT 310 Organizational Behavior (3). This course serves as an introduction to the study of individual and group behavior within the context of an organization. An objective may be the development of the student's potential for becoming an effective organization member and manager of people. Experiential learning methods are utilized to involve the student actively. A wide variety of topics and theories may be covered, generally including motivation, leadership, job design, group dynamics, and formal organizational structure and process. Prerequisite: Completion of ECON 142, ACCT 200, PSYC 104, and one course in the social science, society and culture (s/c) principle course area. Prior completion or coenrollment in ACCT 201 and DSCI 301. LEC

MGMT 400 Special Topics in Management: _____ (1-5). This is a variable-topic seminar. Its purpose is to allow the occasional offering of management topics not covered by established courses. Prerequisite: Determined for each topic by instructor. Enrollment restricted. LEC

MGMT 405 Ethical Decision Making in Business (3). This course is designed to provide students with: (a) a grounding in the psychological and philosophical foundations of business ethics; (b) the ability to recognize ethical problems; (c) an exposure to many of the ethically sensitive issues facing corporations and managers in business today (e.g., layoffs, outsourcing, employee whistle-blowing, employee privacy, employee health and safety, marketing and advertising, environmental issues, discrimination, and the global responsibilities of business); and (d) the tools for analyzing and reaching closure on ethical problems. Students will study the role of ethics in the relation of business to employees, consumers, and society. Students in this course will have the opportunity to engage in stimulating class discussions, justify ethical positions in case study analyses, investigate ethical issues in their own future professional lives, and develop and present their solutions for typical ethical problems faced by managers in organizations. Enrollment restricted. LEC

MGMT 410 Human Resources Management (3). The major focus is on the management concerns of staffing, training and development, compensation, and labor-management relations. Constraints on management discretion, including legislation, court decisions, labor unions, and labor markets are reviewed. This course is in the Human Resources area. Prerequisite: MGMT 310. Sports Management majors may petition for entry to the course with completion of the following prerequisite: BUS 301, ECON 142, and an introductory statistics course (DSCI 301, HSES 310, MATH 365, PSYC 300). Enrollment restricted. LEC

MGMT 413 Recruiting and Selecting Effective Employees (3). This course covers various aspects of employee staffing and personnel selection in organizations—the nature of individual differences, the measurement of individual differences, reliability, validity, legal and “fairness” issues, job analysis for job description and selection procedure development, recruitment, initial screening and resume review, the employment interview, general and specific ability tests, personality tests, assessment centers, performance tests, integrity testing, and drug testing. This course is in the Human Resources area. Prerequisite: MGMT 310. Enrollment restricted. LEC

MGMT 416 Training, Development, and Management Careers (3). This course develops (1) competency in training and development skills and (2) understanding of career management issues in organizations. Individual and organizational perspectives are adopted. Topics include assessing training needs, developing and delivering training, evaluating outcomes, career planning, strategies for managing careers, and work/life balance. This course is in the Human Resources area. Prerequisite: MGMT 310. Enrollment restricted. LEC

MGMT 419 Managing Performance and Compensation (3). This course focuses on principles and practices in designing and administering performance management and reward systems. The measurement of employee performance at both the individual and group levels is reviewed. The use of performance measurement information for administrative decision-making and employee development is discussed. The impact of reward systems on employee recruitment, satisfaction and individual and firm-level performance is examined, including approaches to established pay structures, individual and group-based pay-for-performance plans, executive pay issues, government influences, and employee benefits. This course is in the Human Resources area. Prerequisite: MGMT 310. Enrollment restricted. LEC

MGMT 422 Labor Relations (3). Coverage in the course focuses on the development, legal environment, and current problems in the industrial

labor relations system. Emphasis is placed upon the historical evolution of the labor movement, the law of labor relations, and the economic constraints which affect labor relations. This course is in the Human Resources area. Prerequisite: ECON 524. Enrollment restricted. LEC

MGMT 428 Human Resources Management and Labor Markets (3). This course is an investigation of human resource development and utilization, focusing upon current employment and training problems and public and private solutions to these problems. This course is in the Human Resources area. Prerequisite: ECON 524. Enrollment restricted. LEC

MGMT 431 Legal Environment for Managing Employees (3). The focus of this course is how the legal environment affects the management of employees. The topics covered include laws on employment discrimination, employment-at-will, and negligent hiring, the Occupational Safety and Health Act, the National Labor Relations Act, the Fair Labor Standards Act, and the Family and Medical Leave Act. This course is in the Human Resources area. Prerequisite: MGMT 310. Enrollment restricted. LEC

MGMT 434 International Human Resource Management (3). The primary objective of this course is to increase student's understanding of core HRM activities as they are conducted in global context. These activities include staffing, performance management, training and development, compensation, and labor relations. This course is in the Human Resources area. Prerequisite: MGMT 310. Enrollment restricted. LEC

MGMT 437 Personal Skills for Managing People (3). The goal of this course is to increase the capacity of the student to manage others effectively. It begins by focusing on self-awareness and self-management. Students also learn systems for classification of people on the basis of behavior and attitudes. Topics covered include time management, problem solving, reading people, coaching and counseling, delegation and empowerment, conflict resolution, motivation, and discipline. The focus is on skill acquisition, and the learning approaches including readings, inventories, role-playing, and case analyses. This course is in the Human Resources area. Prerequisite: MGMT 310. Enrollment restricted. LEC

MGMT 455 General Management Processes and Change (3). The course focuses on the principles and methods that general managers use to implement strategies, both at the business unit and corporate levels. While stressing the complex nature of the general manager's job, the organization's mission, environment, technology, and strategy are discussed as the primary drivers of designing effective organization structures, processes, and management systems. Change processes for realigning the organization's strategy, structure, processes, and culture are further emphasized, highlighting the role of the general manager as the architect of change. Topics covered include: organization design, transaction costs, behavior and output control; strategic leadership; design of information and reward systems; organizational change and cultural change processes. Prerequisite: MGMT 310. Enrollment restricted. LEC

MGMT 462 Comparative and Cross-cultural Management (3). The course, first of all, focuses on differences and similarities in organizational behavior and in the values and expectations of organizational members from one society to another. A primary goal is to construct a model for understanding the complex linkage among the cultural, social, economic, and political variables that influence organizational behavior. Secondly, the course considers the problems and accommodations that occur when people of different national or cultural backgrounds work together, either within the boundaries of an organization or in business negotiations. The emphasis, here, is on the necessary skills for managing multicultural diversity in both domestic and international settings. Major illustrations are drawn from countries and regions such as Japan, the People's Republic of China, Russia, Latin America, the Middle East, Africa, and the United States. The course is in the Organizational Behavior area. Prerequisite: MGMT 310. Enrollment restricted. LEC

MGMT 470 Leadership in Business Organizations (3). This course serves as a study of leadership and the application of leadership within the context of a business organization. An objective is the development of the student's potential to become a leader of people. The course provides practical guidance on how to lead and some rationalization for making the effort. This course covers a broad set of aspects of leader behavior including: influence processes affecting the interpretation of events for followers, the choice of objectives for the group or organization, the organization of work activities to accomplish the objectives, the motivation of followers to achieve the objectives, the maintenance of cooperative relationships and teamwork, and the enlistment of support and cooperation from people outside the group or organization. Prerequisite: MGMT 310. Enrollment restricted. LEC

MGMT 472 Project Management (3). The purpose of this course is to examine business from a project management perspective, to develop a systems view of business rather than a functional view and to lay the foundation for future leaders to more effectively integrate project management into their business strategy. Further, to establish a common language for and a common knowledge of project management concepts, principles and practices. This course is intended to help stu-

dents gain an understanding of what project management involves, how it relates to other functional management areas, and its role in an organization's structure and leadership. This course is made up of topical lectures, article/video analysis, open discussion, in-class experiential exercises and a team-based outside class project. In order to foster good project management habits, topics will be covered in the order they appear in the project lifecycle starting with project selection and bidding and ending with project acceptance and close out. Topics covered in this course include: the importance and role of project management, the contextual nature of projects, logistics issues in project management, and the E-business impact on project management. Prerequisite: DSCI 310 and MGMT 310. Enrollment restricted. LEC

MGMT 475 Introduction to Entrepreneurship (3). In this course the student examines the disciplines which comprise the critical success factors in entrepreneurship and develops a fundamental understanding of the basic skill set required to manage his/her own business. Learning will be achieved by both study and discussion of key entrepreneurial business issues as well as the critical appraisal of new venture business plans as presented in the text. Readings in entrepreneurship and case studies, contained in the text as well as in video presentations, will be used to illustrate the essential entrepreneurial management issues. Enrollment restricted. LEC

MGMT 476 Management of Small Business (3). For many of us, the American dream is to be your own boss, to own your own business. The business owner has become the new American hero, risking all on the prospect of creating something from scratch that has a purpose in our society. Some want to support a lifestyle while others want to grow and sell a business successfully. This course is designed to give you some of the skills and tools necessary for the starting, managing, and harvesting of a new venture. Owning a small business does not have to be a gamble! Prerequisite: FIN 310, MGMT 310 and MKTG 310. Enrollment restricted. LEC

MGMT 477 Entrepreneurship and New Ventures (3). This course provides students interested in entrepreneurship with the basic understanding of the process of conceiving, creating, managing and potentially selling an entrepreneurial venture. The course work is designed to maximize students' conceptual and experiential learning in areas ranging from self-assessment of entrepreneurial skills and fitness for a career as an entrepreneur to the development of a business idea into a comprehensive business plan based on students' specific area of interest. Students will be exposed to the concepts of entrepreneurship through lecture, classroom discussion, interactive class exercises and basic case analysis as well as group projects outside the classroom. Prerequisite: MGMT 310. Enrollment restricted. LEC

MGMT 480 International Management (3). In the global economy, managers need to expand their repertoires of knowledge and skills in order to be effective. This course examines the important managerial issues arising from a firm's expansion into the international arena and introduces an array of analytical frameworks and management techniques that can be useful to an international manager. Specific topics covered include foreign market entry decisions, strategies and organizational structures for managing a multinational corporation, and management of various functional areas (such as production, marketing, finance and human resources) in an international setting. Prerequisite: FIN 310, MGMT 310, and MKTG 310. Enrollment restricted. LEC

MGMT 498 Business Policy and Strategy (3). The course exposes the student to the role of general management in complex organizations. The cases, conceptual materials, and projects are selected to provide the student with decision-making opportunity in major areas of managerial concern: environmental opportunities and constraints, formulation of business policy, and policy implementation mechanisms. Knowledge and skills gained in previous business courses, including marketing, finance, and quantitative methods, will be applied to problems associated with the totality of organizational activity. Prerequisite: DSCI 310; FIN 310; MGMT 310; and MKTG 310. Enrollment restricted. LEC

MGMT 500 Individual Research in Management (1-5). Individual study of selected topics in management not otherwise available to the student. Topics selected to be determined by the special interests and objectives of the student in consultation with a faculty member who will supervise the reading and research. Prerequisite: DSCI 310, FIN 310, MGMT 310, and MKTG 310; 3.0 professional grade point average and approval of proposed plan of study by the instructor. Enrollment restricted. LEC

MGMT 525 Negotiations and Dispute Settlement (3). This course involves the study of the theory and practice of dispute resolution and negotiation in business mediation (facilitated negotiation). Conflict resolution in the workplace, including grievance procedures, will be considered. Students are required to apply concepts studied through role playing simulations. Prerequisite: MGMT 310 and ECON 524. Enrollment restricted. LEC

MGMT 599 Internship in Management (1-3). Internships provide opportunities for students to combine their academic education with a meaningful experience in the business world. Internships allow students to explore career pathways, further their professional growth, expand professional networks, and increase the relevancy of

their academic course work. The internship course combines job-related activities with a set of academic requirements. These requirements include academic assignments as well as a pre- and post-internship seminar held in the semester before and after the semester in which the internship occurs. Internships for credit must be approved by the Director of the Internship Program prior to the internship experience. Students may not receive more than three hours of internship credit from any of the following: BUS 599, ACCT 599, FIN 599, IBUS 599, IST 599, MGMT 599, or MKTG 599. Prerequisite: Approval of the internship; MGMT 310 and one of the following: DSCI 310, FIN 310, or MKTG 310. Enrollment restricted. LEC

● Marketing Courses

MKTG 300 Special Topics in Marketing: _____ (1-5). This is a variable-topic course open to undergraduates meeting the prerequisites for the specific topic being offered. Its purpose is to allow the occasional offering of marketing topics not covered by established courses. Enrollment is not limited to School of Business students. Prerequisite: Determined for each topic by instructor. LEC

MKTG 305 Survey of Marketing (3). This course introduces the student to marketing from the perspective of the business firm. Topics included are the marketing system, consumer and industrial behavior, market segmentation and positioning, product policy, channels of distribution, pricing strategy, sales management, and marketing communications. (Not open to students with credit in MKTG 310.) LEC

MKTG 310 Marketing (3). A study of marketing from the point of view of the business firm. Topics include the structure of the marketing system, the nature of marketing management, consumer behavior, marketing research, product policy, channels of distribution policy, and analytical techniques useful to marketing management. Prerequisite: Completion of ECON 142, ACCT 200, and PSYC 104. Prior completion or coenrollment in DSCI 301. LEC

MKTG 400 Special Topics in Marketing: _____ (1-5). This is a variable-topic seminar. Its purpose is to allow the occasional offering of marketing topics not covered by established courses. Prerequisite: Determined for each topic by instructor. LEC

MKTG 411 Introduction to Consumer Behavior (3). A study of the buyer's information acquisition, evaluation, purchasing, and post-purchasing evaluation process. Emphasis is placed upon social psychological theories and their implications on the understanding and prediction of consumers' behavior. The student, from the standpoint of the marketing manager, will apply behavioral science concepts to the problems of planning, pricing, and promotion decisions. Prerequisite: MKTG 310. Enrollment restricted. LEC

MKTG 415 Marketing Research for Managers (3). This course introduces the student to the fundamentals of marketing research and analytical approaches to marketing problems. The material is presented from an applied point of view and is designed to familiarize the student with those aspects of marketing research with which the marketing manager is likely to interact. Prerequisite: MKTG 310. Enrollment restricted. LEC

MKTG 420 Promotional Strategy (3). This course will deal with the use of advertising, personal selling, sales promotion, and public relations as elements in a promotional program. The perspective of the course will be distinctly managerial. Therefore, the emphasis will be upon the efficient use of an organization's resources to accomplish communication goals through effective promotional strategy. A good part of the course will be spent examining the communication process; the nature of the receiver and how information is processed; determination of promotional objectives; promotional budget; media decisions, and measuring the effectiveness of the promotional campaigns. The goal of the course is to enable the students to better evaluate and devise a marketing communications program for any given product, service, or idea. Prerequisite: MKTG 310. Enrollment restricted. LEC

MKTG 425 Sales Force Management (3). This course, as an advanced marketing elective, is designed to integrate sales force planning into the marketing planning process; to present the necessary tools and skills needed for developing and evaluating a competitive sales function; and to analyze the components of the sales function from a managerial perspective. Specifically, topics include strategic sales planning, forecasting, quotas and compensation plans, selection and training, time and territory management, motivation, and performance analysis. Pedagogical methods for the course include: lecture, case study, role-playing, micro-computer simulations, and spreadsheet analyses. Prerequisite: MKTG 310. Enrollment restricted. LEC

MKTG 430 New Product Management (3). This course deals with the strategies, techniques, and methods used to develop and market a new product. An important aspect of the course deals with anticipating and managing change that can affect a firm's marketing opportunities and response. Also emphasized is the need for a disciplined process of development. Subjects examined include innovative thinking, identification, and development of marketing opportunities, marketing mix strategies, and implementation. Prerequisite: MKTG 310 or consent of instructor. Enrollment restricted. LEC

**The Business
Career Services
Center is open
from 8 a.m. to 5
p.m. Monday
through Friday.**

MKTG 435 Marketing Strategy (3). The emphasis of this course is strategic marketing analysis and planning. Concepts and methods for the strategic analysis of product-market definition, segmentation, product positioning, and new product planning are examples of individual subjects that are covered. However, the primary objective is to integrate various topics into a strategic planning framework. An important component of the course is the application of concepts to realistic marketing problems through the use of comprehensive marketing simulations or in-depth cases that capture the dynamics of the marketing environment. Students will learn how to identify markets, assess company strengths and weaknesses, target market segments, analyze competition, and develop specific functional strategies in such areas as product development, pricing, distribution, and promotion. Prerequisite: MKTG 310. Enrollment restricted. LEC

MKTG 440 Global Marketing (3). Today businesses compete in a global environment. As such, marketing managers must recognize the global nature of their markets and must develop the knowledge background, sensitivity, and skills required to successfully operate in this dynamic setting. This course examines the array of activities required to select, gain entry, and compete in a location other than the "home" country. Also examined is the influence that culture, environment, government regulation, and economic systems can have upon marketing mix decisions (product, price, promotion, distribution) related to localization, standardization, and local adaptation. Prerequisite: MKTG 310. Enrollment restricted. LEC

MKTG 445 Services Marketing (3). This course prepares students for careers, which will entail managing businesses in the service sector. This sector includes accounting management consulting, engineering services, environmental services, health care, research, architectural, hotel and restaurant, charitable, and many others. It provides the foundation a student needs so that he or she can move beyond providing technical support to the client and towards managing and developing the business. For a marketing or management student, it provides the foundation they need to be able to find a job, hit the ground running, and advance in a marketing (management) position with companies in the service sector. Prerequisite: MKTG 310. Enrollment restricted. LEC

MKTG 450 Internet Marketing (3). This course examines how the power of today's digital technologies can be harnessed to enhance and deploy the marketing function. The course begins with an overview of the key forces shaping the digital environment. It then examines several topics that define and characterize marketing in this new environment. Illustrative topics include web business models, traffic driving strategies, one-to-one marketing, personalization, closed-loop marketing, online support, dynamic pricing, channel redesign, and m-commerce. Throughout, emphasis is placed on linking key concepts to best practices in the field. Prerequisite: MKTG 310. Enrollment restricted. LEC

MKTG 455 Pricing (3). The primary objective of this course is to examine the concepts and tools required to effectively manage the pricing function. Both strategic and tactical aspects of pricing will be covered with a view to identify profit-boosting practices across a range of professional contexts - as product managers, business unit managers, management consultants, and entrepreneurs. Prerequisite: MKTG 310. Enrollment restricted. LEC

MKTG 460 Practicum in Promotional Plan Development (3). The course is an experiential approach to promotional campaign development with an emphasis on promotional strategy as a single component of the total marketing strategy. Student teams work with actual businesses to address the business's individual marketing needs. Students conduct environmental and industry analysis and primary and secondary market research to identify target markets, develop a marketing strategy, promotional objectives, product positioning, brand development and ROI measures for a promotional strategy. Students then complete media planning, creative execution, and budgeting and present the project to the business. Prerequisite: MKTG 310 and at least two of the following three courses: MKTG 411, MKTG 415, or MKTG 435. Enrollment restricted. LEC

MKTG 500 Individual Research in Marketing (1-5). Individual study of selected topics in marketing not otherwise available to the student. Topics selected to be determined by the special interests and objectives of the student in consultation with a faculty member who will supervise the readings and research. Prerequisite: DSCI 310, FIN 310, MGMT 310, and MKTG 310; 3.0 professional grade point average and approval of proposed plan of study by the instructor. Enrollment restricted. LEC

MKTG 599 Internship in Marketing (1-3). Internships provide opportunities for students to combine their academic education with a meaningful experience in the business world. Marketing internships allow students to explore career pathways in marketing, further their professional growth, expand professional networks, and increase the relevancy of their academic course work. The internship course combines job-related activities of the marketing internship position with a set of academic requirements. These requirements include academic assignments as well as a pre- and post-internship seminar held in the semester before and after the semester in which the internship occurs. Internships for credit must be approved by the Director of the Internship Program prior to the internship experience. Students may not receive more than three hours of internship credit from any of the following, BUS 599, ACCT 599, FIN 599, IBUS 599, IST 599, MGMT 599, or MKTG 599. MKTG 599 may count as a Marketing elective for students majoring in Marketing. Prerequisite: Approval of the internship; MKTG 310 and one of the following: DSCI 310, FIN 310, or MGMT 310. Enrollment restricted. LEC

School of Education

Rick Ginsberg, Dean
 J.R. Pearson Hall, 1122 W. Campus Rd.,
 Lawrence, KS 66045-3101, www.soe.ku.edu

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School of Education

Rick Ginsberg, Dean

Joseph R. Pearson Hall, 1122 West Campus Rd.
Lawrence, KS 66045-3101
(785) 864-4297

Sally L. Roberts, Associate Dean, Teacher Education,
Undergraduate Programs, and Partnerships
243 J.R. Pearson Hall, (785) 864-0553

Jim Lichtenberg, Associate Dean, Graduate
Programs and Research

214C J.R. Pearson Hall, (785) 864-9656

Michael Neal, Assistant Dean, Student Services
214B J.R. Pearson Hall, (785) 864-9603

www.soe.ku.edu

Phone: (785) 864-3726

Fax: (785) 864-5076 or (785) 864-7030

Degrees offered: B.S.E., M.A., M.S., M.S.Ed.,
Specialist in Education, Ph.D., Ed.D.

The primary mission of the School of Education is to prepare educators as leaders. Within the university, the School of Education serves Kansas, the nation, and the world by (1) preparing individuals to be leaders and practitioners in education and related human-service fields, (2) expanding and deepening understanding of education as a fundamental human endeavor, and (3) helping society define and respond to its educational responsibilities and challenges. To accomplish this mission, the School of Education (1) offers an extensive curriculum leading to academic degrees and professional licensure, (2) requires faculty and students to engage in scholarship, and (3) provides a wide range of professional services to schools, other institutions, and individuals.

The components of preparing educators as leaders that frame this mission for our initial programs are (1) Research and Best Practice, (2) Content and Pedagogical Knowledge, and (3) Professionalism. These three themes build our conceptual framework.

Mission

The mission statement of KU's School of Education is online at www.soe.ku.edu/administration/Mission.html.

Programs

The School of Education offers programs that lead to teacher licensure in unified early childhood and at the elementary, middle, and secondary levels, as well as nonlicensure options in athletic training, community health, and sport science. Students planning to teach must complete programs composed of three major parts:

General Education (requirements completed primarily

in the first two years), **Major** (content areas in which students are specializing), and **Professional Education** (course work that helps them to understand students as learners and to communicate knowledge effectively).

On admission, students who plan to major in health and physical education report to the Department of Health, Sport, and Exercise Sciences. Students who plan to teach all other subjects and in elementary education are part of the Department of Curriculum and Teaching. Course requirements for each of the three parts of the Teacher Education Programs are listed under departmental headings.

Students interested in preparing to teach music or art should consult the Music Education and Music Therapy and Visual Art Education sections of the School of Fine Arts chapter of this catalog.

First- and Second-year Preparation

Prospective students should contact the School of Education Welcome Center, 208 J.R. Pearson Hall, (785) 864-3726, or the Health, Sport, and Exercise Sciences undergraduate office, 161 Robinson Center, (785) 864-5552.

During the first two years, all students are enrolled in the College of Liberal Arts and Sciences, where they meet a portion of the general education requirements. Teacher education students begin work in teaching fields. The education courses in the first two years (C&T 100 and C&T/ELPS 200) provide a basis for a career decision and a foundation for professional courses in the later years. Students who do not plan to become classroom teachers are not required to take these courses.

In the first year, students planning to enter the school as juniors should enroll in C&T 100 Introduction to the Education Profession. During the second semester of the first year or the first semester of the sophomore year, students should enroll in C&T/ELPS 200 Making Connections Between Schools and Community.

Students who plan to teach should complete the Reading, Writing, and Mathematics portions of the Pre-Professional Skills Test by the first semester of the sophomore year. This test is not required of nonlicensure students.

Admission

Students intending to transfer to the school as juniors must work closely with education advisers. Pre-education students must take specified courses in their first two years. Students are admitted to teaching programs once a year; online applications are due February 1 for the next fall semester. Students are admitted to athletic training once a year; applications are due May 1 for the next fall semester. Admission to sport science and

Photo, page 272:
Students in the elementary education program use Global Positioning System units while learning how to teach latitude and longitude.

community health is twice a year; applications are due February 1 for fall and September 15 for spring.

Visit Our Web Site

The School of Education Web site, www.soe.ku.edu, has current information about the school. Visit the Web site for information about School of Education programs, facilities, services, resources, student organizations, research, laboratories, clinics, policies, and procedures.

Advising

Prospective students in all areas should make appointments with a pre-education adviser through the School of Education Welcome Center, 208 J.R. Pearson Hall, early in the first year to ensure fulfillment of admission requirements and to plan an efficient program of study. Education staff members advise pre-education students individually and in group sessions. Contact a pre-education adviser as early as possible in your college career to review application and graduation requirements. Individual advising and group sessions are provided during the academic year. Walk-in appointments are available through the Welcome Center, 208 J.R. Pearson Hall. Call (785) 864-3726 to visit with an adviser.

Special Services

The Learning Resource Center and Gale Sayers Microcomputer Laboratory facilitate and support teaching, research, and service activities with educational applications of printed materials, media, and microcomputers. The Gale Sayers Microcomputer Laboratory is in 104 J.R. Pearson Hall; the Learning Resource Center is in 110 J.R. Pearson Hall.

School of Education Student Organization. SESO is open to all students interested in careers in education. Information is available in the Welcome Center, 208 J.R. Pearson Hall.

University Honors Program

All qualified students are encouraged to participate in the University Honors Program. For information, see University Honors Program in the College of Liberal Arts and Sciences: General Requirements chapter.

Financial Aid

In addition to scholarships and financial aid administered by the Office of Admissions and Scholarships and the Office of Student Financial Aid (see Undergraduate Admission and Scholarships and Financial Aid under General Information), the school administers a number of special scholarships. Applications are available November 15 each year in 208 J.R. Pearson Hall. The deadline is the first week of February; contact the school for the specific date each year.

Study Abroad

Licensure-year students in the Teacher Education Program may apply for teaching internships at the American School in London or at any Department of Defense Dependents School, most of which are in Western Europe. Consult the School of Education, J.R. Pearson Hall, (785) 864-3726, for further information.

Career Services

The University Career Center, 110 Burge Union, (785) 864-3624, www.ucc.ku.edu, provides career counseling and services for all KU students, including students in the School of Education.

Regulations

For information about University of Kansas regulations, see the General Regulations chapter of this catalog.

Admission requirements vary for each program. Please see the appropriate department sections.

The Undergraduate Catalog is a guideline for SOE policies and procedures. Academic program requirements change. Students are strongly encouraged to check the school's Web site and the department in which the academic program is offered for current information.

The information in this catalog is in effect for students admitted to the School of Education for the years 2006-2008.

Ninety-nine percent of KU teacher education students passed the required state licensure exams, the Principles of Learning and Teaching.

Data from the 2004-2005 Title II Report

This table provides information about the performance of KU School of Education teacher education program students on required state examinations. This data is part of the Title II report required by the federal government. See the School of Education Web site, www.soe.ku.edu, for updated information.

Table C1: Single-assessment Institution-level Pass-rate Data: Regular Teacher Preparation Program
Number of program completers: 150

Type of Assessment	Assessment Code Number	# taking Assessment	# passing Assessment	Institution Pass Rate	Statewide Pass Rate
PRIN. LEARNING & TEACHING K-6	522	55	55	100 percent	97 percent
PRIN. LEARNING & TEACHING 5-9	523	12	12	100 percent	89 percent
PRIN. LEARNING & TEACHING 7-12	524	81	79	98 percent	98 percent

Table C2: Aggregate and Summary Institution-level Pass-rate Data: Regular Teacher Preparation Program
Number of program completers: 150

Type of Assessment	# taking Assessment	# passing Assessment	Institution Pass Rate	Statewide Pass Rate
AGGREGATE: PROFESSIONAL KNOWLEDGE	150	148	99 percent	97 percent

Aggregate pass rate — Numerator: number who passed all the tests they took in a category (and within their specialization). Denominator: Number of completers who took one or more tests in a category (and within their specialization).

Summary pass rate — Numerator: Number who passed all the tests they took within their area of specialization. Denominator: Number of completers who took one or more tests used by the state (and within their specialization).

Degree and Licensure Requirements for Teacher Education Students

Five years are required to complete the Teacher Education Program. After completing a minimum of 124 approved hours and other School of Education requirements, the student receives a bachelor's degree. After acceptance to the Graduate School, students take an additional year of prescribed courses and field experiences to complete licensure requirements.

Majors are available in the following teaching fields:

Unified Early Childhood (Birth-Grade 3)
 Elementary (K-6)
 Middle English (5-8)
 Secondary English (6-12)
 Middle Mathematics (5-8)
 Secondary Mathematics (6-12)
 Secondary History and Government (6-12)
 Middle Science (5-8)
 Secondary Science (biology, chemistry, earth and space, physics) (6-12)
 Foreign Languages (Chinese, French, German, Japanese, Latin, Russian, Spanish) (PK-12)
 Health and Physical Education (K-12)

Endorsements are available in the following areas:

Journalism (available only to Secondary English majors)
 Psychology (available only to Secondary History and Government majors)
 Teaching English as a Second Language (TESL)
 Gifted Education
 Special Education (**Note:** Students must speak to the appropriate Special Education adviser while planning this added endorsement.)

A minimum cumulative grade-point average of 2.5 is required for graduation. However, admission requirements for the professional year are based on these criteria of the Graduate School and the School of Education:

1. Completion of application to the professional year and intent to student teach.
2. Completion of the bachelor's degree in education from KU.
3. At least a 2.5 grade-point average in the field in which a student intends to teach at the elementary, middle, and secondary level.
4. A cumulative grade-point average of 3.0 for regular admission to the Graduate School (2.75 for probationary admission).

Students who complete the professional year and pass the state's licensure examinations and PRAXIS II subject examination meet Kansas requirements. Upon application through the Licensure Office, students are recommended to the Kansas State Board of Education for licensure. A handbook issued by the state board contains a summary of rules and regulations governing teachers' licenses in Kansas. Each state has different requirements. Students planning to teach in other states should check with those states. Information about teaching requirements may be obtained from the Licensure Office. Information about the Kansas licensure examinations is available at Testing Services, 2150 Watkins Memorial Health Center, (785) 864-2768.

The Professional Year

Students in the professional year complete student teaching and internship experiences in their teaching fields and at the levels in which they are seeking licensure. These field experiences are combined with graduate course work. During the professional year, students earn 15 graduate credit hours toward a master's degree in Curriculum and Instruction. It is essential that students interested in the advanced degree plan carefully with their advisers.

For teacher education students, the professional year begins in the fall semester only. It is not possible to begin in the spring semester or summer session. A student in the professional year of the Teacher Education Program completes that year in either the metropolitan

Kansas City attendance area (KU Edwards Campus) or in the Lawrence attendance area (Lawrence campus).

Professional Development Schools. Before the professional year, teacher candidates may apply to complete their experiences in one of the Professional Development Schools (PDS). These schools are in four different districts, which may include elementary, middle, or secondary sites. The PDS experience is based on a collaborative team-teaching model, on-site application of content and teaching, and specific research designed around school improvement plans of the assigned sites. For more information visit the School of Education Web site, www.soe.ku.edu.

Degree Requirements for Students in Nonlicensure Areas

Students in the non-teacher-licensure areas of athletic training, sport science, and community health usually complete the bachelor's degree program in four years. Students seeking admission to undergraduate sport science and community health programs must have minimum cumulative grade-point averages of 2.5. Achieving the minimum grade-point average is not a guarantee of admission. Admission also is based on performance in core courses, academic preparation for the major, and the number of students each program can admit.

Course Substitutions

Course substitutions in any program may require approval of the adviser, department, and associate dean. In addition, some requests must be approved by the school curriculum committee. Approval requires submission of a written petition initiated by the student and approved by the adviser. The associate dean communicates the action taken to the adviser and the student. A copy is placed in the student's file.

Curriculum and Teaching

Chair: Marc Mahlios
 J.R. Pearson Hall, 1122 West Campus Rd., Room 421
 Lawrence, KS 66045-3101
 (785) 864-4435, www.soe.ku.edu

Degrees offered: B.S.E., M.A., M.S.Ed., Ed.D., Ph.D. The *Undergraduate Catalog* serves as a guideline for policies and procedures in the School of Education. However, academic program requirements change. Students are strongly encouraged to check the school's Web site and the department in which the academic program is offered for the most current information. The information in this catalog is in effect for students admitted to the School of Education for 2006-2008.

Admission

Students are admitted to the Teacher Education Program once a year for the following academic year. Complete an online application and provide accompanying required information to the Welcome Center, 208 J.R. Pearson Hall, by **February 1**. Students are notified of decisions in writing on or before March 15. Kansas Board of Regents policy determines some admission requirements.

Competitive Programs. The number of admissions is limited in the following majors: *unified early*

childhood, elementary, secondary history/government, middle-level English, and secondary English.

Open Programs. Admission is noncompetitive in middle-level mathematics, secondary mathematics, K-12 foreign language, middle-level science, and the secondary sciences.

For all programs, not all students who meet the minimum requirements are admitted. Transfer students are also subject to these enrollment policies.

Minimum Requirements. All students who apply for admission to the department must meet the following minimum requirements:

1. An applicant must have completed at least 45 hours by the time of application and at least **55 hours** by the time of admission. The **cumulative grade-point average** must be **at least 2.75**.
2. Applicants must have **cumulative grade-point averages of at least 2.75** in the core admission courses to qualify for the pool from which students are selected. No grade lower than a C is acceptable in English, communication studies, or mathematics.
3. A student must pass all three sections of the Pre-Professional Skills Test before submitting application materials. Passing scores are 173 in Reading, 172 in Mathematics, and 172 in Writing.
4. Applicants must also submit personal essays and letters of support.

Because enrollment in competitive programs is limited to prescribed numbers, *students who meet minimum admission standards may not be accepted*. Prospective teacher education students should consult an adviser early in the first year to ensure fulfillment of admission requirements and to plan an efficient program of study. Education staff members advise pre-education students individually and in group sessions.

Pre-Professional Skills Test (PPST). *Passing scores on all three portions of the PPST are required at the time of application.* Students usually take the PPST in spring of the first year or fall of the second year. Students who do not receive passing scores may retake portions of the PPST. The paper/pencil version of the PPST normally is administered six times a year; applications to register for the test are due at least a month in advance. The computerized version is taken by appointment; contact Testing Services, (785) 864-2768. The test administrator discards PPST scores periodically. Request that test scores be reported to KU, and check to make sure scores are on file.

PPST applications and information are available from the Testing Services Center, 2150 Watkins Memorial Health Center. The Learning Resource Center, 110 J.R. Pearson Hall, has additional PPST information and sample questions.

Non-Western Culture Requirement

The Kansas State Board of Education requires students seeking licensure to study both Western and non-Western cultures. To meet the non-Western culture requirement, students must complete at least one course from the list of non-Western culture courses in the College of Liberal Arts and Sciences: General Requirements chapter of this catalog. This requirement also may count in the appropriate category (behavioral sciences, social sciences, or arts/humanities) of the general education requirements.

Advising

After admission, advisers are assigned according to students' intended licensure levels and teaching fields. The adviser's name appears in each student's letter of acceptance or is available from the Undergraduate Records Office.

Courses in some teacher licensure areas and levels may change. Current information is available from advisers and Student Services.

Non-Western culture courses are listed on pages 59-61. Principal courses are listed on pages 61-63.

KU's teacher education program features strong academic majors and early and continuous involvement in clinical field experiences.

Requirements for Program Completion

Completion of the Teacher Education Program requires the following:

1. Successful completion of the B.S.E. degree. To complete this degree, the student must finish
 - An approved program of at least 124 hours with a cumulative grade-point average of at least 2.5.
 - Other general regulations of the school and university as specified in other sections of this catalog.
 2. Successful completion of the professional year. To complete this year, the student must
 - Complete the B.S.E. degree and be accepted to the Graduate School. The minimum grade-point average for regular admission is 3.0. The minimum for probationary admission is 2.75.
 - Apply, be accepted for, and successfully complete a student teaching assignment. Admission to student teaching requires a minimum cumulative grade-point average of 2.5 in the teaching field, a minimum overall grade-point average of 2.75, no grade lower than a C in any course in professional education, and completion of appropriate methods courses in each teaching field. Students must complete student teaching with a grade of C or higher to continue with their internships.
 - Successfully complete the academic requirements in courses taken in the second half of the first semester of the professional year.
 - Complete the internship with a grade of C or higher and successfully complete the course work and research requirements taken in concert with the internship. Students seeking elementary licensure complete field experiences at both primary (K-3) and intermediate (4-6) levels. Students seeking elementary licensure may not complete student teaching and internship in the same school except with advance permission.
 3. To be licensed as a teacher in Kansas, a student must fill out an application, pay a fee, pass the Principles of Learning and Teaching Examination and content examination(s), and complete the academic requirements in items 1 and 2 of this section. Information about licensure is available in the Licensure Office in J.R. Pearson Hall.
- Note:** Each state has its own licensure requirements. Being eligible for a license in Kansas does not ensure that the applicant is eligible for licensure in other states.

Students who do not complete the professional year during the academic year immediately following completion of the B.S.E. may be required to complete additional course work before beginning the professional year. These students must visit with their academic advisers.

Professional Year Requirements. Unified Early Childhood and Elementary Programs

Fall Semester (14 hours)

C&T 500 Student Teaching (eight weeks)	3
ELPS 737 The Governance and Organization of Schools	2-3
PRE 720 Educational Measurement in the Classroom	3
PRE 730 Counseling and Consultation Skills for Teachers	2
SPED 706 Advanced Practices for Children with Disabilities in the Elementary General Education Classroom	3

Spring Semester (10 hours)

C&T 735 Instructional Strategies in: _____	2
C&T 739 Internship in Teaching (12 weeks)	6
C&T 712 Teacher as Leader in the Education Community	2

Middle, Secondary, and K-12 Programs

Fall Semester (14 hours)

C&T 500 Student Teaching (eight weeks)	3
ELPS 737 The Governance and Organization of Schools	2-3
PRE 720 Educational Measurement in the Classroom	3
PRE 730 Counseling and Consultation Skills for Teachers	2
SPED 707 Advanced Practices for Adolescents with Disabilities in the Middle/Secondary General Classroom	3

Spring Semester (10 hours)

C&T 736 Analysis of Teaching and Learning in _____	3
C&T 739 Internship in Teaching (12 weeks)	6
C&T 712 Teacher as Leader in the Education Community	2

Program Requirements

Unified Early Childhood (Birth-Grade 3) Major

General Education Requirements. Courses marked with an asterisk (*) are required for admission.

*ENGL 101 Composition	3
*ENGL 102 Critical Reading and Writing	3
ENGL 203, ENGL 209, ENGL 210, or ENGL 211	3
ENGL 360 Advanced Composition: _____	3
*COMS 130 Speaker-Audience Communication	3

*ANTH 108 Introduction to Cultural Anthropology (4) or	MATH 110 Mathematics for Elementary Teachers II	3
ANTH 160 The Varieties of Human Experience (3)	PHSX 111 Introductory Physics	3
SOC 130 Comparative Societies (3) or	PHSX 116 Introductory Physics Laboratory	1
SOC 104 Elements of Sociology (3)	SPLH course in language development for elementary teachers ..	3
1(Acceptable combinations include ANTH 108/SOC 130,	HSES 260 Personal and Community Health	3
ANTH 160/SOC 104, and ANTH 160/SOC 130.)	*PSYC 104 General Psychology	3
*GEOG 100 World Regional Geography	*HA or MUSC course (see pre-education adviser for list of	
*HIST 128 History of the United States Through the Civil War ..	options)	3
POLS 110 Introduction to U.S. Politics	History of Ideas course (see pre-education adviser for list of	
HIST 348 History of the Peoples of Kansas	options)	3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	*C&T 100 Introduction to the Education Profession	3
*MATH 105, MATH 106, MATH 115 or higher	C&T/ELPS 200 Making Connections Between Schools and	
*BIOL 100 and BIOL 102 Principles of Biology and Lab	Community	3
GEOG 104 Principles of Physical Geography (3) and GEOG 105		
Introductory Laboratory in Physical Geography (2)		
MATH 109 Mathematics for Elementary Teachers I	Teacher Education Courses	
MATH 110 Mathematics for Elementary Teachers II	C&T 301 Instructional Technology in Elementary/Middle	
PHSX 111 Introductory Physics	Education	3
PHSX 116 Introductory Physics Laboratory	C&T 322 Curriculum and the Learner in the Elementary School ..	3
SPLH course in language development for elementary teachers ..	C&T 325 Education in a Multicultural Society	3
HSES 260 Personal and Community Health	C&T 344 Children's Literature in the Elementary School	3
*PSYC 104 General Psychology	C&T 347 Social Studies in the Elementary Classroom	3
*HA or MUSC course (see pre-education adviser for list of	C&T 349 Science in the Elementary Classroom	3
options)	C&T 351 Mathematics for the Elementary Classroom	3
History of Ideas course (see pre-education adviser for list of	C&T 352 Literacy Instruction in the Primary Grades (K-3)	3
options)	C&T 353 Literacy Practicum in the Primary Grades	1
*C&T 100 Introduction to the Education Profession	C&T 354 Literacy Instruction in the Intermediate Grades (4-6) ..	3
SPED261 Families and Professional Partnerships	C&T 355 Literacy Practicum in the Intermediate Grades (4-6)	1
SPED 362 Introduction to the Discipline of Early Education ..	C&T 413 The Reflective Practitioner in the Elementary Classroom ..	3
SPED 364 Health, Safety, and Supportive Environments (3) or	C&T 421 Economics for Elementary Teachers	3
ABSC 455 Health, Safety, and Nutrition in Early Childhood	ELPS 450 Foundations of Education	3
Development (3)	PRE 305 Development and Learning of the Young Child	3
SPED 650 Curriculum and Methods for the Learning in Early	HSES 341 Instructional Strategies in Physical Education for	
Education I	Elementary Classroom Teachers	1
SPED 663 Assessment Strategies in Early Education	SPED 326 Teaching Exceptional Children and Youth in General	
SPED 661 Supporting Children with Significant Learning and	Education	3
Behavioral Challenges	Choose two of the following:	
SPED 665 Inclusive Strategies and Intervention for Preschoolers ..	VAE 341 Instructional Strategies in Art for Elementary	
SPED 667 Field Experience in Preschool	Classroom Teachers	2
SPED 664 Inclusive Strategies and Intervention for Infants and	MEMT 341 Instructional Strategies in Music for Elementary	
Toddlers	Classroom Teachers	2
SPED 668 Field Experience in Early Intervention	TH&F 404 Children and Drama	3
C&T 301 Instructional Technology in Elementary/Middle		
Education	Middle (5-8) English Major	
C&T 322 Curriculum and the Learner in the Elementary School ..	General Education Requirements. Courses marked with an asterisk	
C&T 325 Education in a Multicultural Society	(*) are required for admission.	
C&T 344 Children's Literature in the Elementary School	*ENGL 101 Composition	3
C&T 347 Social Studies in the Elementary Classroom	*ENGL 102 Critical Reading and Writing	3
C&T 349 Science in the Elementary Classroom	*COMS 130 Speaker-Audience Communication	3
C&T 351 Mathematics for the Elementary Classroom	*ANTH 108 Introduction to Cultural Anthropology (4) or	
C&T 352 Literacy Instruction in the Primary Grades (K-3)	ANTH 160 The Varieties of Human Experience (3)	3-41
C&T 353 Literacy Practicum in the Primary Grades	SOC 130 Comparative Societies (3) or	
ELPS 450 Foundations of Education	SOC 104 Elements of Sociology (3)	31
PRE 305 Development and Learning of the Young Child	1(Acceptable combinations include ANTH 108/SOC 130,	
HSES 341 Instructional Strategies in Physical Education for	ANTH 160/SOC 104, and ANTH 160/SOC 130.)	
Elementary Classroom Teachers	*GEOG 100 World Regional Geography	3
SPED 326 Teaching Exceptional Children and Youth in General	*HIST 128 History of the United States Through the Civil War (3) or	
Education	HIST 129 History of the United States After the Civil War (3) ..	3
VAE 341 Instructional Strategies in Art for Elementary	*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	3-5
Classroom Teachers	*MATH 105, MATH 106, MATH 115 or higher	3
MEMT 341 Instructional Strategies in Music for Elementary	*BIOL 100 and BIOL 102 Principles of Biology and Lab	4-5
Classroom Teachers	A physical science course with laboratory	4-5
	(GEOG 104/GEOG 105, GEOL 101/GEOL 103, PHSX	
	111/PHSX 116, CHEM 125 or CHEM 184, ATMO 105,	
	ASTR 191/ASTR 196)	
	HSES 260 Personal and Community Health	3
	*PSYC 104 General Psychology	3
	*Cultural achievement course (see a pre-education adviser	
	for a list of options)	3
	*C&T 100 Introduction to the Education Profession	3
	C&T/ELPS 200 Making Connections Between Schools and	
	Community	3
	Major Requirements	
	ENGL 203, ENGL 209, ENGL 210 or ENGL 211	3
	ENGL 312 Major British Writers to 1800 (3) and	
	ENGL 322 American Literature II (3) or	
	ENGL 314 Major British Writers after 1800 (3) and	
	ENGL 320 American Literature I (3)	6
	ENGL 580 Rhetoric and Writing: _____	3
	ENGL 337 Introduction to U.S. Latino/a Literature (3) or	
	ENGL 338 Introduction to African-American Literature (3) or	
	ENGL 571 American Indian Literature: _____ (3)	3
	ENGL 351 Fiction Writing I (3) or	
	ENGL 360 Advanced Composition: _____ (3) or	
	ENGL 555 Writing Non-Fiction (3)	3
	ENGL 387 Introduction to the English Language	3
	ENGL 385 The Development of Modern English	3
	C&T 344 Children's Literature in the Elementary School	3
	C&T 430 Teaching Literature for Young Adults	3
Elementary (K-6) Major		
General Education Requirements. Courses marked with an asterisk		
(*) are required for admission.		
*ENGL 101 Composition		3
*ENGL 102 Critical Reading and Writing		3
ENGL 203, ENGL 209, ENGL 210, or ENGL 211		3
ENGL 360 Advanced Composition: _____		3
*COMS 130 Speaker-Audience Communication		3
*ANTH 108 Introduction to Cultural Anthropology (4) or		
ANTH 160 The Varieties of Human Experience (3)		3-41
SOC 130 Comparative Societies (3) or		
SOC 104 Elements of Sociology (3)		31
1(Acceptable combinations include ANTH 108/SOC 130,		
ANTH 160/SOC 104, and ANTH 160/SOC 130.)		
*GEOG 100 World Regional Geography		3
*HIST 128 History of the United States Through the Civil War ..		3
POLS 110 Introduction to U.S. Politics		3
HIST 348 History of the Peoples of Kansas		3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..		3-5
*MATH 105, MATH 106, MATH 115 or higher		3
*BIOL 100 and BIOL 102 Principles of Biology and Lab		4-5
GEOG 104 Principles of Physical Geography (3) and GEOG 105		
Introductory Laboratory in Physical Geography (2)		5
MATH 109 Mathematics for Elementary Teachers I		3

Teacher Education Courses

C&T 302 Instructional Technology in Middle/Secondary Education	3
C&T 323 Curriculum and the Learner in the Middle Grades	3
C&T 325 Education in a Multicultural Society	3
C&T 414 The Reflective Practitioner in the Middle/Secondary School	4
C&T 440 Teaching English in the Middle/Secondary Schools ..	3
C&T 448 Reading and Writing Across the Curriculum	3
ELPS 450 Foundations of Education	3
C&T 492 Senior Colloquium	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
PRE 306 Development and Learning of the Adolescent	3

Secondary (6-12) English Major

General Education Requirements. Courses marked with an asterisk (*) are required for admission.

*ENGL 101 Composition	3
*ENGL 102 Critical Reading and Writing	3
*COMS 130 Speaker-Audience Communication	3
*ANTH 108 Introduction to Cultural Anthropology (4) or ANTH 160 The Varieties of Human Experience (3)	3-4 ¹
SOC 130 Comparative Societies (3) or SOC 104 Elements of Sociology (3)	3 ¹
¹ (Acceptable combinations include ANTH 108/SOC 130, ANTH 160/SOC 104, and ANTH 160/SOC 130.)	
*GEOG 100 World Regional Geography	3
*HIST 128 History of the United States Through the Civil War(3) or HIST 129 History of the United States After the Civil War (3) ...	3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	3-5
*MATH 105, MATH 106, MATH 115 or higher	3
*BIOL 100 and BIOL 102 Principles of Biology and Lab	4-5
A physical science course with laboratory	4-5
(GEOG 104/GEOG 105, GEOL 101/GEOL 103, PHSX 111/PHSX 116, CHEM 125 or CHEM 184, ATMO 105, ASTR 191/ASTR 196)	
HSES 260 Personal and Community Health	3
*PSYC 104 General Psychology	3
*Cultural achievement course (see a pre-education adviser for a list of options)	3
*C&T 100 Introduction to the Education Profession	3
C&T/ELPS 200 Making Connections Between Schools and Community	3

Major Requirements

ENGL 203, ENGL 209, ENGL 210 or ENGL 211	3
ENGL 312 Major British Writers to 1800 (3) and ENGL 322 American Literature II (3) or ENGL 314 Major British Writers after 1800 (3) and ENGL 320 American Literature I (3)	6
ENGL 332 Shakespeare	3
ENGL 337 Introduction to U.S. Latino/a Literature (3) or ENGL 338 Introduction to African-American Literature (3) or ENGL 571 American Indian Literature: ____ (3)	3
ENGL 351 Fiction Writing I (3) or ENGL 360 Advanced Composition: ____ (3) or ENGL 555 Writing Non-Fiction (3)	3
ENGL 387 Introduction to the English Language	3
ENGL 385 The Development of Modern English	3
ENGL 580 Rhetoric and Writing:	3
HWC 304 or HWC 308 or HWC 312 Masterpieces of World Literature I, II, or III	3
C&T 430 Teaching Literature for Young Adults	3

Teacher Education Courses

C&T 302 Instructional Technology in Middle/Secondary Education	3
C&T 324 Curriculum and the Learner in the High School	3
C&T 325 Education in a Multicultural Society	3
C&T 414 The Reflective Practitioner in the Middle/Secondary School	4
C&T 440 Teaching English in the Middle/Secondary Schools ..	3
C&T 448 Reading and Writing Across the Curriculum	3
ELPS 450 Foundations of Education	3
C&T 492 Senior Colloquium	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
PRE 306 Development and Learning of the Adolescent	3

Middle (5-8) Mathematics Major

General Education Requirements. Courses marked with an asterisk (*) are required for admission.

*ENGL 101 Composition	3
*ENGL 102 Critical Reading and Writing	3
*COMS 130 Speaker-Audience Communication	3
*ANTH 108 Introduction to Cultural Anthropology (4) or ANTH 160 The Varieties of Human Experience (3)	3-4 ¹
SOC 130 Comparative Societies (3) or SOC 104 Elements of Sociology (3)	3 ¹

¹(Acceptable combinations include ANTH 108/SOC 130,
ANTH 160/SOC 104, and ANTH 160/SOC 130.)

*GEOG 100 World Regional Geography	3
*HIST 128 History of the United States Through the Civil War(3) or HIST 129 History of the United States After the Civil War (3) ...	3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	3-5
*MATH 105, MATH 106, MATH 115 or higher	3
*BIOL 100 and BIOL 102 Principles of Biology and Lab	4-5
A physical science course with laboratory	4-5
(GEOG 104/GEOG 105, GEOL 101/GEOL 103, PHSX 111/PHSX 116, CHEM 125 or CHEM 184, ATMO 105, ASTR 191/ASTR 196)	
HSES 260 Personal and Community Health	3
*PSYC 104 General Psychology	3
*Cultural achievement course (see a pre-education adviser for a list of options)	3
*C&T 100 Introduction to the Education Profession	3
C&T/ELPS 200 Making Connections Between Schools and Community	3

Major Requirements

MATH 121 Calculus I	5
MATH 122 Calculus II	5
MATH 109 Mathematics for Elementary School Teachers I	3
MATH 110 Mathematics for Elementary School Teachers II	3
MATH 409 Topics in Mathematics for Secondary and Middle School Teachers	3
MATH 558 Introductory Modern Algebra	3
MATH 365 Elementary Statistics	3
MATH course in history of mathematics	1
MATH 106 Introduction to Finite Mathematics	3
A math elective for which MATH 122 is a prerequisite (300 level or higher is recommended to reach 45 junior/ senior hours for graduation)	3-5

Teacher Education Courses

C&T 302 Instructional Technology in Middle/Secondary Education	3
C&T 323 Curriculum and the Learner in the Middle Grades	3
C&T 325 Education in a Multicultural Society	3
C&T 414 The Reflective Practitioner in the Middle/Secondary School	4
C&T 430 Teaching Literature for Young Adults	3
C&T 443 Teaching Mathematics in the Middle/Secondary Schools	3
C&T 448 Reading and Writing Across the Curriculum	3
ELPS 450 Foundations of Education	3
C&T 492 Senior Colloquium	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
PRE 306 Development and Learning of the Adolescent	3

Secondary (6-12) Mathematics Major

General Education Requirements. Courses marked with an asterisk (*) are required for admission.

*ENGL 101 Composition	3
*ENGL 102 Critical Reading and Writing	3
*COMS 130 Speaker-Audience Communication	3
*ANTH 108 Introduction to Cultural Anthropology (4) or ANTH 160 The Varieties of Human Experience (3)	3-4 ¹
SOC 130 Comparative Societies (3) or SOC 104 Elements of Sociology (3)	3 ¹
¹ (Acceptable combinations include ANTH 108/SOC 130, ANTH 160/SOC 104, and ANTH 160/SOC 130.)	
*GEOG 100 World Regional Geography	3
*HIST 128 History of the United States Through the Civil War(3) or HIST 129 History of the United States After the Civil War (3) ...	3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	3-5
*MATH 105, MATH 106, MATH 115 or higher	3
*BIOL 100 and BIOL 102 Principles of Biology and Lab	4-5
A physical science course with laboratory	4-5
(GEOG 104/GEOG 105, GEOL 101/GEOL 103, PHSX 111/PHSX 116, CHEM 125 or CHEM 184, ATMO 105, ASTR 191/ASTR 196)	
HSES 260 Personal and Community Health	3
*PSYC 104 General Psychology	3
*Cultural achievement course (see a pre-education adviser for a list of options)	3
*C&T 100 Introduction to the Education Profession	3
C&T/ELPS 200 Making Connections Between Schools and Community	3

Major Requirements

MATH 121 Calculus I	5
MATH 122 Calculus II	5
MATH 223 Vector Calculus	3
MATH 290 Elementary Linear Algebra	2
MATH 500 Intermediate Analysis	3
MATH 409 Topics in Mathematics for Secondary and Middle School Teachers	3
MATH 558 Introductory Modern Algebra	3

Teacher Placement Day, held every April, brings employers from many states to KU to interview recent graduates. Competition for teachers prepared at KU is high.

Students must complete a methods course in every middle and secondary field in which they wish to be licensed.

Most department offices have current listings of all courses required for their majors.

MATH 365 Elementary Statistics	3
MATH 559 Modern Geometries	3
MATH 526 Applied Mathematical Statistics I	3
MATH 320 Elementary Differential Equations (3) or	
PHSX 211 General Physics I (4)	3-4
MATH course in history of mathematics	1
EECS 138 Introduction to Computing: Pascal	3
EECS 210 Discrete Structures (4) or	
MATH 530 Mathematical Models I (3)	3-4

Teacher Education Courses

C&T 302 Instructional Technology in Middle/Secondary Education	3
C&T 323 Curriculum and Learner in the Middle Grades	3
C&T 324 Curriculum and the Learner in the High School	3
C&T 325 Education in a Multicultural Society	3
C&T 414 The Reflective Practitioner in the Middle/Secondary School	4
C&T 443 Teaching Mathematics in the Middle/Secondary Schools	3
C&T 448 Reading and Writing Across the Curriculum	3
ELPS 450 Foundations of Education	3
C&T 492 Senior Colloquium	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
PRE 306 Development and Learning of the Adolescent	3

Secondary (6-12) History and Government Major

General Education Requirements. Courses marked with an asterisk (*) are required for admission.

*ENGL 101 Composition	3
*ENGL 102 Critical Reading and Writing	3
*COMS 130 Speaker-Audience Communication	3
*ANTH 108 Introduction to Cultural Anthropology (4) or	
ANTH 160 The Varieties of Human Experience (3)	3-4
SOC 130 Comparative Societies (3) or	
SOC 104 Elements of Sociology (3)	3 ¹
¹ (Acceptable combinations include ANTH 108/SOC 130, ANTH 160/SOC 104, and ANTH 160/SOC 130.)	
*GEOG 100 World Regional Geography	3
*HIST 128 History of the United States Through the Civil War ..	3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	3-5
*MATH 105, MATH 106, MATH 115 or higher	3
*BIOL 100 and BIOL 102 Principles of Biology and Lab	4-5
GEOG 104 Principles of Physical Geography (3) and GEOG 105 Introductory Laboratory in Physical Geography (2)	5
HSES 260 Personal and Community Health	3
*PSYC 104 General Psychology	3
*Cultural achievement course (see a pre-education adviser for a list of options)	3
*C&T 100 Introduction to the Education Profession	3
C&T/ELPS 200 Making Connections Between Schools and Community	3

Major Requirements

*HIST 128 History of the United States Through the Civil War ..	3
HIST 129 History of the United States After the Civil War	3
HIST 348 History of the Peoples of Kansas	3
American history elective (300 level or higher)	3
HIST 100 World History: An Introduction	3
A course in Latin American area studies	3
A course in European history (300 level or higher)	3
An Asian or African history course	3
POLS 110 Introduction to U.S. Politics	3
C&T 420 Teaching Kansas Government:	1
POLS 150 Introduction to Comparative Politics	3
Political science elective (numbered POLS 300 or above)	3
GEOG 104 Principles of Physical Geography	3
GEOG 100 World Regional Geography (3) or	
GEOG 102 Principles of Human Geography (3)	3
GEOG 111 Maps and Mapping (4) or	
GEOG 210 Computers, Maps and Geographical Analysis (3) or	
GEOG 311 Map Conception and Development (4)	3-4
GEOG 351 Africa's Human Geographies (3) or	
GEOG 396 China's Geographies (3) or	
GEOG 553 Geography of African Development (3) or	
GEOG 570 Geography of American Indians (3)	3
ECON 104 Introductory Economics	4

Teacher Education Courses

C&T 302 Instructional Technology in Middle/Secondary Education	3
C&T 323 Curriculum and the Learner in the High School	3
C&T 325 Education in a Multicultural Society	3
C&T 414 The Reflective Practitioner in the Middle/Secondary School	4
C&T 422 Teaching Economics and Secondary Social Studies ..	2
C&T 441 Teaching Social Studies in the Middle/Secondary Schools	3
C&T 448 Reading and Writing Across the Curriculum	3
ELPS 450 Foundations of Education	3

C&T 492 Senior Colloquium	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
PRE 306 Development and Learning of the Adolescent	3

Middle (5-8) Science Major

General Education Requirements. Courses marked with an asterisk (*) are required for admission.

*ENGL 101 Composition	3
*ENGL 102 Critical Reading and Writing	3
*COMS 130 Speaker-Audience Communication	3
*ANTH 108 Introduction to Cultural Anthropology (4) or	
ANTH 160 The Varieties of Human Experience (3)	3-4 ¹
SOC 130 Comparative Societies (3) or	
SOC 104 Elements of Sociology (3)	3 ¹
¹ (Acceptable combinations include ANTH 108/SOC 130, ANTH 160/SOC 104, and ANTH 160/SOC 130.)	
*GEOG 100 World Regional Geography	3
*HIST 128 History of the United States Through the Civil War(3) or	
HIST 129 History of the United States After the Civil War (3) ..	3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	3-5
*MATH 105, MATH 106, MATH 115 or higher	3
*BIOL 150 Principles of Molecular and Cellular Biology	4
A physical science course with laboratory	4-5
(GEOG 104/GEOG 105, GEOL 101/GEOL 103, PHSX 111/PHSX 116, CHEM 125 or CHEM 184, ATMO 105, ASTR 191/ASTR 196)	
HSES 260 Personal and Community Health	3
*PSYC 104 General Psychology	3
*Cultural achievement course (see a pre-education adviser for a list of options)	3
*C&T 100 Introduction to the Education Profession	3
C&T/ELPS 200 Making Connections Between Schools and Community	3

Major Requirements

PHSX 114 College Physics I	4
PHSX 115 College Physics II	4
PHSX 116 Introductory Physics Laboratory	1
CHEM 184 Fundamentals of Chemistry I	5
CHEM 188 Fundamentals of Chemistry II	5
BIOL 150 Principles of Molecular and Cellular Biology	4
BIOL 152 Principles of Organismal Biology	4
GEOL 101 Introduction to Geology (3) and	
GEOL 103 Geology Fundamentals Laboratory (2)	5
GEOL 304 Historical Geology	2
ASTR 191 Contemporary Astronomy (3) and	
ASTR 196 Introductory Astronomy Laboratory (2)	5
ATMO 105 Introductory Meteorology	5
Undergraduate science research course (300 level or higher) ..	3
Elective in science (300 level or higher)	3
*MATH 101 Algebra (3) and MATH 103 Trigonometry (2) or	
MATH 104 Precalculus Mathematics (5) or	
MATH 121 Calculus I (5)	5
HIST history of science course	3

Teacher Education Courses

C&T 302 Instructional Technology in Middle/Secondary Education	3
C&T 323 Curriculum and the Learner in the Middle Grades ..	3
C&T 325 Education in a Multicultural Society	3
C&T 414 The Reflective Practitioner in the Middle/Secondary School	4
C&T 430 Teaching Literature for Young Adults	3
C&T 442 Teaching Science in the Middle/Secondary Schools ..	3
C&T 448 Reading and Writing Across the Curriculum	3
ELPS 450 Foundations of Education	3
C&T 492 Senior Colloquium	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
PRE 306 Development and Learning of the Adolescent	3

Secondary (6-12) Biology Major

General Education Requirements. Courses marked with an asterisk (*) are required for admission.

*ENGL 101 Composition	3
*ENGL 102 Critical Reading and Writing	3
*COMS 130 Speaker-Audience Communication	3
*ANTH 108 Introduction to Cultural Anthropology (4) or	
ANTH 160 The Varieties of Human Experience (3)	3-4 ¹
SOC 130 Comparative Societies (3) or	
SOC 104 Elements of Sociology (3)	3 ¹
¹ (Acceptable combinations include ANTH 108/SOC 130, ANTH 160/SOC 104, and ANTH 160/SOC 130.)	
*GEOG 100 World Regional Geography	3
*HIST 128 History of the United States Through the Civil War(3) or	
HIST 129 History of the United States After the Civil War (3) ..	3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	3-5
*MATH 115 Calculus I	3
*BIOL 150 Principles of Molecular and Cellular Biology	4

CHEM 184 Fundamentals of Chemistry I	5	MATH 116 Calculus II	3
HSES 260 Personal and Community Health	3	HIST history of science course	3
*PSYC 104 General Psychology	3		
*Cultural achievement course (see a pre-education adviser for a list of options)	3		
*C&T 100 Introduction to the Education Profession	3		
C&T/ELPS 200 Making Connections Between Schools and Community	3		

Major Requirements

BIOL 152 Principles of Organismal Biology	4
BIOL 350 Principles of Genetics	3
BIOL 400 Fundamentals of Microbiology	3
BIOL 404 Introduction to Genetics	3
BIOL 402 Fundamentals of Microbiology Laboratory (2) or BIOL 405 Laboratory in Genetics (2)	2
BIOL 408 Physiology of Organisms (3) and BIOL 409 Physiology of Organisms, Laboratory (2)	5
BIOL 412 Evolutionary Biology	3
BIOL 413 History and Diversity of Organisms	3
BIOL 414 Principles of Ecology	3
BIOL 415 Field and Laboratory Methods in Ecology	2
BIOL 416 Cell Structure and Function (3) or BIOL 600 Introductory Biochemistry, Lectures (4)	3-4
BIOL 424 Independent Study: Undergraduate Research	3
CHEM 188 Fundamentals of Chemistry II	5
CHEM 624 Organic Chemistry I	3
PHSX 111 Introductory Physics (3) and PHSX 116 Introductory Physics Laboratory (1)	4
MATH 115 Calculus I	3
HIST history of science course	3
Recommended: BIOL 570 Introduction to Biostatistics	3

Teacher Education Courses

C&T 302 Instructional Technology in Middle/Secondary Education	3
C&T 323 Curriculum and the Learner in the Middle Grades.....	3
C&T 324 Curriculum and the Learner in the High School	3
C&T 325 Education in a Multicultural Society	3
C&T 414 The Reflective Practitioner in the Middle/Secondary School	4
C&T 442 Teaching Science in the Middle/Secondary Schools ..	3
C&T 448 Reading and Writing Across the Curriculum	3
ELPS 450 Foundations of Education	3
C&T 492 Senior Colloquium	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
PRE 306 Development and Learning of the Adolescent.....	3

Secondary (6-12) Chemistry Major

General Education Requirements. Courses marked with an asterisk (*) are required for admission.

*ENGL 101 Composition.....	3
*ENGL 102 Critical Reading and Writing	3
*COMS 130 Speaker-Audience Communication	3
*ANTH 108 Introduction to Cultural Anthropology (4) or ANTH 160 The Varieties of Human Experience (3)	3-4 ¹
SOC 130 Comparative Societies (3) or SOC 104 Elements of Sociology (3)	3 ¹
¹ (Acceptable combinations include ANTH 108/SOC 130, ANTH 160/SOC 104, and ANTH 160/SOC 130.)	
*GEOG 100 World Regional Geography	3
*HIST 128 History of the United States Through the Civil War(3) or HIST 129 History of the United States After the Civil War (3) ..	3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	3-5
*MATH 115 Calculus I	3
*BIOL 100 and BIOL 102 Principles of Biology and Lab (4) or *BIOL 150 Principles of Molecular and Cellular Biology (4) ..	4
CHEM 184 Fundamentals of Chemistry I	5
HSES 260 Personal and Community Health	3
*PSYC 104 General Psychology	3
*Cultural achievement course (see a pre-education adviser for a list of options)	3
*C&T 100 Introduction to the Education Profession	3
C&T/ELPS 200 Making Connections Between Schools and Community	3

Major Requirements

CHEM 188 Fundamentals of Chemistry II	5
CHEM 516 Analytical Chemistry	3
CHEM 517 Analytical Chemistry Laboratory	2
CHEM 624 Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 640 Biological Physical Chemistry	3
CHEM 647 Physical Chemistry I Laboratory	2
CHEM 696 Junior/Senior Seminar	1
CHEM 698 Undergraduate Research Problems	3
PHSX 114 College Physics I	4
PHSX 115 College Physics II	4
MATH 115 Calculus I	3

Teacher Education Courses

C&T 302 Instructional Technology in Middle/Secondary Education	3
C&T 323 Curriculum and the Learner in the Middle Grades.....	3
C&T 324 Curriculum and the Learner in the High School	3
C&T 325 Education in a Multicultural Society	3
C&T 414 The Reflective Practitioner in the Middle/Secondary School	4
C&T 442 Teaching Science in the Middle/Secondary Schools ..	3
C&T 448 Reading and Writing Across the Curriculum	3
ELPS 450 Foundations of Education	3
C&T 492 Senior Colloquium	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
PRE 306 Development and Learning of the Adolescent.....	3

Secondary (6-12) Earth and Space Science Major

General Education Requirements. Courses marked with an asterisk (*) are required for admission.

*ENGL 101 Composition	3
*ENGL 102 Critical Reading and Writing	3
*COMS 130 Speaker-Audience Communication	3
*ANTH 108 Introduction to Cultural Anthropology (4) or ANTH 160 The Varieties of Human Experience (3)	3-4 ¹
SOC 130 Comparative Societies (3) or SOC 104 Elements of Sociology (3)	3 ¹
¹ (Acceptable combinations include ANTH 108/SOC 130, ANTH 160/SOC 104, and ANTH 160/SOC 130.)	
*GEOG 100 World Regional Geography	3
*HIST 128 History of the United States Through the Civil War(3) or HIST 129 History of the United States After the Civil War (3) ..	3
*MATH 104 Precalculus Mathematics	5
*MATH 115 Calculus I	3
*BIOL 150 Principles of Molecular and Cellular Biology	4
CHEM 184 Fundamentals of Chemistry I	5
Physical science course	3
HSES 260 Personal and Community Health	3
*PSYC 104 General Psychology	3
*Cultural achievement course (see a pre-education adviser for a list of options)	3
*C&T 100 Introduction to the Education Profession	3
C&T/ELPS 200 Making Connections Between Schools and Community	3

Major Requirements

ASTR 191 Contemporary Astronomy	3
ASTR 196 Introductory Astronomy Laboratory	1
ATMO 105 Introductory Meteorology	5
GEOG 101 Introduction to Geology	3
GEOG 103 Geology Fundamentals Laboratory	2
GEOG 302 Oceanography	3
GEOG 304 Historical Geology	2
GEOG 351 Environmental Geology	3
GEOG 360 Field Investigation	2
GEOG 521 Paleontology	3
GEOG 311 Mineralogy and the Structure of the Earth	3
GEOG 331 Sedimentology and Surface Processes	4
GEOG 552 Introduction to Hydrogeology	3
Undergraduate research experience in astronomy, atmospheric science or geology	3
PHSX 114 College Physics I	4
PHSX 115 College Physics II	4
HIST history of science course	3

Teacher Education Courses

C&T 302 Instructional Technology in Middle/Secondary Education	3
C&T 323 Curriculum and the Learner in the Middle Grades.....	3
C&T 324 Curriculum and the Learner in the High School	3
C&T 325 Education in a Multicultural Society	3
C&T 414 The Reflective Practitioner in the Middle/Secondary School	4
C&T 442 Teaching Science in the Middle/Secondary Schools ..	3
C&T 448 Reading and Writing Across the Curriculum	3
ELPS 450 Foundations of Education	3
C&T 492 Senior Colloquium	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
PRE 306 Development and Learning of the Adolescent.....	3

Secondary (6-12) Physics Major

General Education Requirements. Courses marked with an asterisk (*) are required for admission.

*ENGL 101 Composition.....	3
*ENGL 102 Critical Reading and Writing	3
*COMS 130 Speaker-Audience Communication	3
*ANTH 108 Introduction to Cultural Anthropology (4) or ANTH 160 The Varieties of Human Experience (3)	3-4 ¹

KU's teacher education program is recognized nationally for providing superior, innovative professional preparation for teachers.

Many graduate courses and programs are offered on KU's Edwards Campus, 12600 Quivira Rd., Overland Park, KS 66213-2402, phone (from Lawrence): 864-8400 or (913) 897-8400, Web site: <http://edwardscampus.ku.edu>.

SOC 130 Comparative Societies (3) or	
SOC 104 Elements of Sociology (3)	3 ¹
¹ (Acceptable combinations include ANTH 108/SOC 130, ANTH 160/SOC 104, and ANTH 160/SOC 130.)	
*GEOG 100 World Regional Geography	3
*HIST 128 History of the United States Through the Civil War(3) or	
HIST 129 History of the United States After the Civil War (3) ...	3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	3-5
*MATH 115 Calculus I	3
*BIOL 100 and BIOL 102 Principles of Biology and Lab (4) or	
*BIOL 150 Principles of Molecular and Cellular Biology (4)	4
PHSX 114 College Physics I	4
PHSX 115 College Physics II	4
HSES 260 Personal and Community Health	3
*PSYC 104 General Psychology	3
*Cultural achievement course (see a pre-education adviser for a list of options)	3
*C&T 100 Introduction to the Education Profession	3
C&T/ELPS 200 Making Connections Between Schools and Community	3
Major Requirements	
Choose one of the following physics sequences (9-12 hours)	
PHSX 114 College Physics I (4) and PHSX 115 College Physics II (4) and PHSX 116 Introductory Physics Lab (1) or	
PHSX 211 General Physics I (4) and PHSX 212 General Physics II (4) and PHSX 313 General Physics III (4)	9-12
PHSX 503 Undergraduate Research	3
PHSX 557 Topics in Mechanics, Properties of Materials, Thermodynamics	1-3
PHSX 558 Topics in Electricity and Magnetism and Optics.....	3
PHSX 559 Topics in Modern Physics	1-3
ASTR 191 Contemporary Astronomy	3
ASTR 196 Introductory Astronomy Laboratory	1
CHEM 184 Fundamentals of Chemistry I	5
CHEM 188 Fundamentals of Chemistry II	5
MATH 116 Calculus II	3
HIST history of science course	3
Teacher Education Courses	
C&T 302 Instructional Technology in Middle/Secondary Education	3
C&T 323 Curriculum and the Learner in the Middle Grades.....	3
C&T 324 Curriculum and the Learner in the High School	3
C&T 325 Education in a Multicultural Society	3
C&T 414 The Reflective Practitioner in the Middle/Secondary School	4
C&T 442 Teaching Science in the Middle/Secondary Schools ..	3
C&T 448 Reading and Writing Across the Curriculum	3
ELPS 450 Foundations of Education	3
C&T 492 Senior Colloquium	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
PRE 306 Development and Learning of the Adolescent	3
Foreign Language Majors (PK-12)	
General Education Requirements. Courses marked with an asterisk (*) are required for admission.	
*ENGL 101 Composition.....	3
*ENGL 102 Critical Reading and Writing	3
*COMS 130 Speaker-Audience Communication	3
*ANTH 108 Introduction to Cultural Anthropology (4) or	
ANTH 160 The Varieties of Human Experience (3)	3-4 ¹
SOC 130 Comparative Societies (3) or	
SOC 104 Elements of Sociology (3)	3 ¹
¹ (Acceptable combinations include ANTH 108/SOC 130, ANTH 160/SOC 104, and ANTH 160/SOC 130.)	
*GEOG 100 World Regional Geography	3
*HIST 128 History of the United States Through the Civil War(3) or	
HIST 129 History of the United States After the Civil War (3) ...	3
*MATH 101 Algebra or MATH 104 Precalculus Mathematics ..	3-5
*MATH 105, MATH 106, MATH 115 or higher	3
*BIOL 100 and BIOL 102 Principles of Biology and Lab	4-5
A physical science course with laboratory	4-5
(GEOG 104/GEOG 105, GEOL 101/GEOL 103, PHSX 111/PHSX 116, CHEM 125 or CHEM 184, ATMO 105, ASTR 191/ASTR 196)	
HSES 260 Personal and Community Health	3
*PSYC 104 General Psychology	3
*Cultural achievement course (see a pre-education adviser for a list of options)	3
*C&T 100 Introduction to the Education Profession	3
C&T/ELPS 200 Making Connections Between Schools and Community	3
Chinese Major Requirements	
CHIN 104 and CHIN 108 Elementary Chinese I and II	10
CHIN 204 and CHIN 208 Intermediate Chinese I and II	10
CHIN 206 Intermediate Chinese Conversation	2
CHIN 504 and CHIN 508 Advanced Modern Chinese I and II ..	10
LING 106 Introductory Linguistics	3
Choose one of the following literature courses:	
CHIN 562 or EALC 310 or EALC 314 or EALC 318	3
Choose one of the following culture courses:	
EALC 368 or EALC 420 or EALC 530	3
French Major Requirements	
FREN 110 and FREN 120 Elementary French I and II	10
FREN 230 or FREN 231 Intermediate French I	3
French 240 or FREN 241 Intermediate French II	3
FREN 300 Intensive Review of French Grammar	3
FREN 326 Introduction to French Literature	3
FREN 350 Applied French Grammar and Composition I	3
FREN 310 French Phonetics	3
FREN 375 Intermediate French Conversation	3
FREN 376 Advanced French Conversation	3
Choose one of the following literature courses:	
FREN 450 or FREN 460 or FREN 465 or FREN 470 or FREN 480 ...	3
Choose one of the following culture courses:	
FREN 410 or FREN 420 or FREN 430 or FREN 431 or FREN 440 ...	3
German Major Requirements	
GERM 104 or GERM 105 Elementary German AI	5
GERM 107, GERM 108, or GERM 109 Elementary German AII ...	5
GERM 212 and GERM 216 Intermediate German I and II	6
GERM 408 and GERM 416 Introduction to German Literature I and II	6
GERM 344 and GERM 348 Intermediate Composition I and II ..	6
GERM 444 German Conversation for Everyday Use	3
GERM 630 Advanced German Grammar	3
Choose one of the following culture courses:	
GERM 588 or GERM 590 or GERM 620	3
Choose one of the following courses:	
LING 106 Introductory Linguistics (3) or	
GERM 705 German Phonetics (3) or	
GERM 712 The Structure of Modern Standard German (3) ..	3
Japanese Major Requirements	
JPN 104 and JPN 108 Elementary Japanese I and II	10
JPN 204 and JPN 208 Intermediate Japanese I and II	10
JPN 206 Intermediate Japanese Conversation	2
JPN 306 and JPN 310 Advanced Japanese Conversation I and II ...	4
JPN 504 and JPN 508 Advanced Modern Japanese I and II	6
LING 106 Introductory Linguistics	3
Choose one of the following literature courses:	
JPN 562 or EALC 312 or EALC 316	3
Choose one of the following culture courses: EALC 536 or EALC 136 ...	
Latin Major Requirements	
LAT 104 or LAT 105 Elementary Latin	5
LAT 108 or LAT 109 Latin Reading and Grammar	5
LAT 112 or LAT 113 Readings in Latin Literature I	3
LAT 200 or LAT 201 Vergil's <i>Aeneid</i>	3
CLSX 148 or CLSX 149 Greek and Roman Mythology	3
CLSX 527 Roman Archaeology and Art	3
HIST 506 Roman Republic	3
Choose any four of the following courses:	
LAT 301 Prose Fiction and Epistolography (3)	
LAT 302 Hexameter Poetry (3)	
LAT 303 Roman Historians (3)	
LAT 304 Lyric and Elegiac Poetry (3)	
LAT 305 Roman Drama (3)	
Russian Major Requirements	
² RUSS 104 and ² RUSS 108 Elementary Russian I and II	10
RUSS 204 and RUSS 208 Intermediate Russian I and II	12
SLAV 140 Introduction to Russian Culture	3
SLAV 520 Russian Phonetics, Phonology, and Inflectional Morphology (3) or SLAV 240 Introduction to the Languages and Peoples of Russia and East-Central Europe (3)	3
RUSS 504 and RUSS 508 Advanced Russian I and II	6
SLAV 612 Introduction to Russian Literature of the Nineteenth Century (3) or SLAV 616 Introduction to Russian Literature of the Twentieth Century (3)	3
² Intensive lower-level language courses may be substituted for the more traditional course sequence. RUSS 110 (10 hours) may replace RUSS 104 and RUSS 108 (10 hours).	
Spanish Major Requirements	
² SPAN 104 or SPAN 105 Elementary Spanish I	3-5
² SPAN 108 or SPAN 109 Elementary Spanish II	3-5
SPAN 212 or SPAN 213 Intermediate Spanish I	3
SPAN 216 or SPAN 217 Intermediate Spanish II	3
SPAN 324 Grammar and Composition	3
SPAN 328 Intermediate Spanish Conversation I	1
SPAN 329 Intermediate Spanish Conversation II	1
SPAN 340 Textual Analysis and Critical Reading	3
SPAN 424 Advanced Spanish Composition and Grammar	3
SPAN 428 Advanced Spanish Conversation	1
SPAN 429 Spanish Phonetics	3
SPAN 446 Spanish Culture (3) or	
SPAN 447 Latin American Cultures (3)	3

Electives: Six hours of literature courses: 6
 SPAN 451, SPAN 453², SPAN 462, SPAN 463³
²Intensive lower-level language courses may be substituted for the more traditional course sequence. SPAN 111 (10 hours) may replace SPAN 104 and SPAN 108 (10 hours). SPAN 220 (6 hours) may replace SPAN 212 and SPAN 216 (6 hours). SPAN 222 (11 hours) may replace SPAN 108, SPAN 212, and SPAN 216 (11 hours).
³recommended

Teacher Education Courses

C&T 301 Instructional Technology in Elementary/Middle Education (3) or C&T 302 Instructional Technology in Middle/Secondary Education (3) 3
 C&T 322 Curriculum and the Learner in the Elementary School 3
 C&T 323 Curriculum and the Learner in the Middle Grades 3
 C&T 324 Curriculum and the Learner in the High School 3
 C&T 325 Education in a Multicultural Society 3
 C&T 414 The Reflective Practitioner in the Middle/Secondary School 4
 C&T 444 Teaching Foreign Language in the Middle/Secondary Schools 3
 C&T 448 Reading and Writing Across the Curriculum 3
 ELPS 450 Foundations of Education 3
 C&T 492 Senior Colloquium 3
 PRE 306 Development and Learning of the Adolescent 3
 SPED 326 Teaching Exceptional Children and Youth in General Education 3

Endorsements

Journalism Endorsement. This endorsement is only available for Secondary (6-12) English Majors.
 JOUR 101 Media and Society 3
 JOUR 301 Research and Writing 3
 JOUR 618 First Amendment and Society 3
 JOUR 600 School Journalism and Publications 3
 JOUR 419 Multimedia Editing 3
 JOUR 415 Multimedia Reporting 3
 JOUR 310 Visual Communications (2) or JOUR 552 Print and Online Design (3) or JOUR 553 Marketing Communication Production Design (3) 2-3

Psychology Endorsement. This endorsement is only available for Secondary (6-12) History/Government Majors.
 PSYC 104 General Psychology (3) or PSYC 105 General Psychology Honors (3) 3
 PSYC 120 Personality 3
 PSYC 310 Research Methods in Psychology 3
 PSYC 318 Cognitive Psychology 3
 PSYC 333 Child Psychology 3
 PSYC 350 Abnormal Psychology 3
 PSYC 360 Social Psychology 3

Teaching English as a Second Language Endorsement (TESL)⁴
 LING 106 Introductory Linguistics (3) or ENGL 387 Introduction to the English Language (3) 3
 C&T 325 Education in a Multicultural Society 3
 C&T 615 Teaching English as a Second Language/Bilingual Education 3
 C&T 616 Diagnosis and Remediation in Second Language Education 3
 C&T 617 Second Language Acquisition 3
 C&T 820 Practicum in Teaching English as a Second Language/Bilingual Education 3

⁴Students seeking a bilingual education emphasis must present a Superior (3+) rating on the FSI or the ACTFL/ETS proficiency tests (or equivalent tests) in their non-native language.

Gifted Provisional Endorsement

C&T 744 Understanding the Nature of Talent in Children and Youth 3
 C&T 745 Teaching for Talent Development 3
 C&T 747 Practicum in Gifted and Talented Education 3

Special Education Endorsement

Adaptive Provisional Sequence
 SPED 730 Characteristics of Students in the Adaptive and Functional Curriculum 3
 SPED 741 Methods and Assessment: Academic Instruction for Students with Disabilities in General Education and Learning Center Settings, in selected area 3

Functional Provisional Sequence
 SPED 730 Characteristics of Students in the Adaptive and Functional Curriculum 3
 SPED 742 Methods and Assessment: Life Skills and Community-based Instruction, in selected area

Deaf Provisional Education

SPED 633/SPED 733 Characteristics of Learners with Hearing Loss—Deaf Studies 3
 SPED first functional methods class in deaf education
 SPED 775 Practicum with Children and Youth with Disabilities, in deaf education (taken in spring semester, fifth year)

Health, Sport, and Exercise Sciences

Interim Chair: Bob Frederick
 Robinson Center, 1301 Sunnyside Ave., Room 104
 Lawrence, KS 66045-7567
 (785) 864-3371, www.soe.ku.edu/hses

Degrees offered: B.S.E., M.S.E., Ph.D

The *Undergraduate Catalog* serves as a guideline for policies and procedures in the School of Education. However, academic program requirements change. Students are strongly encouraged to check the school's Web site and the department in which the academic program is offered for the most current information. The information in this catalog is in effect for students admitted to the School of Education for 2006-2008.

Undergraduates may enroll in Professional Teacher Preparation Programs in health and physical education. They also may enroll in nonlicensure B.S.E. options in athletic training, sport science, and community health. Students in sport science select one of three emphases—exercise science, pre-physical therapy, or sports and fitness management—that prepare them for work in health, fitness, or sport settings outside the schools. Students in community health prepare to work with public health agencies. Students in all non-licensure programs must complete an internship.

The department provides physical activity courses for all students and serves the community through clinics and laboratories. All undergraduate programs include a strong general education component with a focus on the biological sciences.

Students may enter the School of Education by meeting the admission requirements. Students seeking admission to all programs must have a minimum cumulative grade-point average of 2.5; however, achieving the minimum grade-point average is not a guarantee of admission. In addition to the minimum cumulative grade-point average, program admission is based on performance in core courses, academic preparation for the major, and the number of students that each program can admit. Consult the School of Education Welcome Center, 208 J.R. Pearson Hall, or the HSES Undergraduate Office, 161 Robinson Center.

Laboratories and Clinics

HSES programs at all levels are supported by experiential education opportunities. All undergraduates are exposed to the laboratories and clinics, which serve KU and the community. For more information about the Athletic Training Laboratory, the Biomechanics Laboratory, the Applied Physiology Laboratory, and the Perceptual and Sensory-Motor Clinic, visit the School of Education's Web site, www.soe.ku.edu.

Non-Western Culture Requirement

The Kansas State Board of Education requires students seeking licensure to study both Western and non-Western cultures. To meet the non-Western culture requirement, students must complete at least one course from the list of non-Western culture courses in the College of Liberal Arts and Sciences: General Requirements chapter of this catalog. This requirement also may count in the appropriate category (behavioral sciences, social sciences, or arts/humanities) of the general education requirements.

Non-Western culture courses are listed on pages 59-61. Principal courses are listed on pages 61-63.

A Placement Table for Initial Enrollment in Mathematics appears on page 59.

The information in this catalog is in effect for students admitted to the School of Education for the years 2006-2008.

Students may apply to the School of Education as sophomores. Admitted students enter the school as juniors.

Advising

Information about assigned advisers is given in the letter of admission. School of Education staff members advise pre-education students individually and in group sessions.

Health and Physical Education Teacher Licensure Program (K-12)

Admission. Students are selected once a year in the spring for fall semester admission. Complete an application and provide accompanying information to the Welcome Center, 208 J.R. Pearson Hall. All materials are due on February 1. Students are notified of decisions in writing on or before April 1. Students who plan to teach health and physical education must meet the following requirements:

1. Applicants must have **completed** at least **50 hours** by the time of application. The cumulative grade-point average must be at least 2.5.
2. The following courses (50 credit hours) or KU equivalents for transfer students, must be completed before the application deadline:
 - ENGL 101 (or exemption) and ENGL 102 or ENGL 105 (must be a total of 6 hours of composition) 6
 - COMS 130 Speaker-Audience Communication 3
 - Mathematics (two courses, usually 6 hours, depending on placement). The second course should have MATH 101 as a prerequisite and may be MATH 105, MATH 106, MATH 111, MATH 115, or a higher-level mathematics course, but may not be MATH 103, MATH 104, MATH 109, or MATH 110 6
 - BIOL 100 and BIOL 102 (Lab) or BIOL 103 (Lab, Honors) 4
 - PSYC 104 General Psychology 3
 - Two Social Sciences courses from the principal course listing in the online Undergraduate Catalog. (Students are advised to take a non-Western culture course that will also count in this area or in Humanities.) 6
 - HSES 201 Team Sports 2
 - HSES 202 Individual and Dual Sports 2
 - HSES 214 Physical Education Activities for Elementary School Children 3
 - HSES 260 Personal and Community Health 3
 - HSES 244 The History and Foundations of Physical Education 3
 - HSES 330 Principles of Nutrition and Health 3
 - HSES 453 Communicable and Degenerative Diseases 3
 - One Humanities course from the principal course listing in the online Undergraduate Catalog. (Students are advised to take a non-Western culture course that will also count in this area or in Social Sciences.) 3
3. Applicants must have cumulative grade-point averages of at least 2.75 in the courses above to qualify for admission. No grade lower than C is acceptable in English, mathematics, or communication studies.
4. A student must pass all three sections of the Pre-Professional Skills Test (PPST) before submitting application materials. Passing scores are 172 in Math, 173 in Reading, and 172 in Writing.

Pre-Professional Skills Test (PPST). *Passing scores on all three portions of the PPST are required at the time of application.* Students usually take the PPST in spring of the first year or fall of the second year. Students who do not receive passing scores may retake portions of the PPST. The paper/pencil version of the PPST normally is administered six times a year; applications to register for the test are due at least a month in advance. The computerized version is taken by appointment; contact Testing Services, (785) 864-2768. The test administrator discards PPST scores periodically. Request that test scores be reported to KU, and check to make sure scores are on file.

PPST applications and information are available from the Testing Services Center, 2150 Watkins Memorial Health Center. The Learning Resource Center, 110 J.R. Pearson Hall, has additional PPST information and sample questions.

Pre-Block Courses (65-66 credit hours)

Language Arts and Communication (9 hours)

ENGL 101 Composition (or exemption)	3
ENGL 102 Critical Reading and Writing	3

COMS 130 Speaker-Audience Communication	3
Behavioral Science (3 hours)	
PSYC 104 General Psychology	3
Social Sciences and Humanities (9 hours)	
Select two Social Sciences courses from the principal course listing in the online Undergraduate Catalog	6
Select one Humanities course from the principal course listing in the online Undergraduate Catalog	3
(Students are advised to take a required non-Western culture course as the social sciences or humanities course.)	
Science and Mathematics (17-18 hours)	
BIOL 100 Principles of Biology	3
BIOL 102 Principles of Biology Laboratory	1
BIOL 240 Fundamentals of Human Anatomy	3
One course from the Natural Sciences: Earth or Physical Science principal course listing in the online Undergraduate Catalog ...	4-5
Mathematics (usually 6 hours, depending on placement)	
The second course should have MATH 101 as a prerequisite and may be MATH 105, MATH 106, MATH 111, MATH 115, or a higher-level mathematics course, but may not be MATH 103, MATH 104, MATH 109, or MATH 110	6

PE and Health Content Courses (27 credit hours)

HSES 201 Team Sports	2
HSES 202 Individual and Dual Sports	2
HSES 214 Physical Education Activities for Elementary School Children	3
HSES 244 The History and Foundations of Physical Education	3
HSES 248 First Aid	2
HSES 260 Personal and Community Health	3
HSES 330 Principles of Nutrition and Health	3
HSES 453 Communicable and Degenerative Diseases	3
HSES 482 Drugs in Society	3
HSES 489 Health and Human Sexuality	3

Block 1: Fall Semester, Junior Year (16-17 credit hours)

HSES 340 Instructional Strategies in Motor Learning	2
HSES 573 Introduction to School and Community Health	3
HSES 671 Applied Biomechanics	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
ELPS 540 Foundations of Education	3
Technology or fitness elective	2-3

Block 1 Experience: Adapted PE Practicum (10 clock hours).

Serve as a teaching aide for an adapted physical educator in a local district.

Block 2: Spring Semester, Junior Year (15 credit hours)

BIOL 246 Principles of Human Physiology	3
HSES 108 Basic Skill Instruction in (Fitness elective)	1
HSES 210 Instruction and Analysis in Swimming	1
HSES 320 Methods of Teaching Physical Education	3
HSES 558 Creative Movement and Dance Appreciation	3
HSES 565 Methods and Materials in Health Education	3
C&T 359 Basic Processes of Reading	1

Block 2 Experience: Health Teaching Practicum (30 clock hours).

Serve as a teaching aide in a middle, junior high, or high school health classroom.

Block 3: Fall Semester, Senior Year (15 credit hours)

HSES 410 Program Design in Physical Education	3
*HSES 672 Exercise Physiology	3
HSES 680 Adaptive Physical Education and Recreation	3
HSES 690 Sociology of Sport	3
C&T 325 Education in a Multicultural Society	3

Block 3 Experience: PE Teaching Practicum (30 clock hours).

Serve as a teaching aide in an elementary, middle, or junior high PE classroom.

Note: During Block 3, students are strongly encouraged to take both the Health and the Physical Education PRAXIS examinations.

To progress to Block 4, all assessments must be completed at an acceptable level. A graduation check is required to verify that **all course work is completed with a minimum grade-point average of 2.75.**

Block 4: Field Experience, Spring Semester, Senior Year (16 credit hours)

HSES 500 Student Teaching	14
HSES 501 Seminar in Teaching Health and Physical Education	2

Athletic Training

Selective/Limited Admissions Policies. Students must meet requirements for admission to the School of Education and to the HSES department. Students are selected once a year in the spring for fall semester admission. The number of openings depends on the ratio of students to clinical instructors (8 to 1) and may vary depending on current enrollment. The maximum capacity is 50 students, based on guidelines of the Commission on Accreditation of Allied Health Education Programs. If the number of applicants exceeds available openings, applicants are ranked by cumulative grade-point average (2.5 minimum), final grades in HSES 350 and HSES 351 (percentage score), and score on the athletic training education program entrance exam. Selection begins with the highest ranking until all positions are filled. Students who are not accepted may pursue other options.

Technical Standards for Admission. Athletic training is a rigorous and intense program that prepares graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals. The program's technical standards establish the qualities necessary for students to achieve the knowledge, skills, and competencies of entry-level athletic trainers. Students who cannot meet these standards, with or without reasonable accommodation, will not be admitted. Students must comply with these standards to complete the program. Compliance with the technical standards does not guarantee eligibility for the NATABOC certification examination. Candidates must demonstrate

1. The mental capacity to assimilate, analyze, synthesize, integrate concepts, solve problems, formulate assessments and therapeutic judgments, and distinguish deviations from the norm.
2. Sufficient ability to perform appropriate accepted techniques of psychomotor skills and clinical proficiencies in athletic training.
3. Sufficient ability to use equipment and materials accurately, safely, and efficiently during assessment and treatment of patients.
4. The ability to communicate effectively and sensitively with patients and colleagues including those from different cultural and social backgrounds.
5. The capacity to maintain composure and continue to function well during periods of high stress.
6. The perseverance, diligence, and commitment to complete the program.
7. Flexibility and ability to adjust to changing situations and uncertainty in clinical situations.
8. Affective skills and appropriate demeanor and rapport that relate to professional education and good patient care.
9. The ability to record physical examination results and a treatment plan clearly and accurately.
10. Physical and mental health that permits meeting established technical standards (determined by physical examination).

Candidates must verify that they understand and meet these standards or that they can meet them with certain accommodations.

Transfer Student Policy. Students must follow KU policies on transfer of credit and meet KU, School of Education, and athletic training program admission requirements. Space must be available. If space is not available, transfer students must apply during the next enrollment period. Transfer courses in athletic training must address specific competencies consistent with KU course equivalents. Students must provide syllabi, specific course competencies, and documentation of completed competencies related to the transfer course to ensure that their qualifications are comparable to those of KU students. Students must complete 800 hours of clinical experience to meet Kansas athletic training registration requirements. Students are

placed at a level consistent with their previous knowledge. Program authorities reserve the right to accept or deny transfer of credit for athletic training courses.

Prerequisites for Admission

1. Admission to the School of Education must have been granted. (Students may apply to any Sport Science program for admission purposes.)
2. Complete the following course work before admission:
 - BIOL 240 Fundamentals of Human Anatomy (3)
 - BIOL 241 Human Anatomy Observation Laboratory (2)
 - HSES 248 First Aid (2)
 - HSES 350 Care and Prevention of Athletic Injuries (3)
 - HSES 351 Foundations of Athletic Training (1)
 No grade lower than B (80 percent) is allowed in HSES 350 and HSES 351.
3. Complete an application for the athletic training education program.
4. Submit official transcripts or ARTS forms from all colleges or universities attended.
5. Submit a letter of intent describing career goals and why the student wishes to become a Certified Athletic Trainer.
6. Submit completed recommendation forms from three professional references (instructor, athletic trainer, physical therapist, doctor, etc.).
7. Minimum score of 80 percent on the athletic training education program entrance examination, completion of level I competencies, completion of directed observation experience (assessed in HSES 351).
8. Proof of physical examination by a licensed physician. Use the form provided in the application packet (see Technical Standards for Admission and Communicable Disease Policy in the Athletic Training Student Handbook).
9. Proof of vaccination for measles, mumps, rubella, tetanus, diphtheria, and hepatitis B series (first vaccinations required; available at Watkins Memorial Health Center).
10. Proof of tuberculosis skin test (available at Watkins Memorial Health Center).
11. Proof of current American Red Cross CPR and First Aid certification.
12. Proof of student malpractice liability insurance (see the Athletic Training Student Handbook).
13. Adherence to Technical Standards for Admission. Complete agreement form (see the Athletic Training Student Handbook).

The athletic training education program is nondiscriminatory with respect to race, religion, color, sex, national origin, sexual orientation, age, disability, creed, and veteran status.

Program. The athletic training program prepares students for careers as allied-health professionals and for the National Athletic Trainers' Association Board of Certification examination, which leads to certification and the credential of a certified athletic trainer. Students learn the concepts and skills to manage health care problems associated with physical activity. In cooperation with physicians and other health care personnel, the athletic trainer is an integral member of the health care team in secondary schools, colleges and universities, professional sports, sports medicine clinics, and health care settings. The professional preparation develops competencies in injury prevention and risk management, pathology of injuries and illnesses, assessment and evaluation, acute care of injury and illness, pharmacology, therapeutic modalities, therapeutic exercise, general medical conditions, nutritional aspects of injury and illness, psychosocial intervention and referral, professional development and responsibilities, and health care administration.

All students complete 49 hours of general education requirements and a 9-hour sport foundation core. Students complete a 68-hour core curriculum including four 4-hour practicum courses in which they participate in clinical education. Clinical education is the formal acquisition, practice, application, and evaluation of the entry-level athletic training clinical proficiencies. This is accomplished through classroom, laboratory, clinical, and field experiences under the supervision of a clinical instructor. Each practicum's

Requirements for Athletic Training and for the Sport Science programs in Exercise Science and Pre-Physical Therapy are being revised. New requirements will take effect beginning in fall semester 2007. Please consult an adviser in Health, Sport, and Exercise Sciences or visit the HSES Web site, www.soe.ku.edu/hses, for current information and updates.

Visit KU online:
www.ku.edu.

proficiencies provide a logical progression of learning. Students are assigned to a clinical instructor each semester for related clinical and field experience. The clinical and field experiences allow students to apply related skills in direct patient care at clinical affiliate sites, including area high schools, sports medicine/physical therapy clinics, and collegiate settings. Field experiences include exposure to upper- and lower-extremity injuries, general medical conditions, experiences with protective equipment, experiences with team and individual sports, and gender-specific opportunities. The clinical portion of the curriculum is a vital part of professional preparation. Students are expected to demonstrate mastery of clinical skills related to didactic course work. Students must complete requirements with a grade no lower than a B in the practicum sequence. The passing mark for all competencies is 80 percent. A minimum of 126 credit hours with a cumulative grade-point average of at least 2.5 is required for graduation.

Students must demonstrate mastery of each competency skill to their approved clinical instructors and pass final evaluations with 80 percent proficiency. Students who do not meet these criteria do not progress to the next course in the program sequence.

General Education Requirements (49-51 hours)

Language Arts and Communication (12 hours)
 ENGL 101 Composition (or exemption) (3) **or** 3
 ENGL 105 Freshman Honors English (3) 3
 ENGL 102 Critical Reading and Writing (3) **or** 3
 ENGL 205 Freshman-Sophomore Honors Proseminar (3) ... 3
 ENGL elective (3) 3
 COMS 130 Speaker-Audience Communication (3) **or** 3
 COMS 150 Personal Communication (3) 3

Biological Science (12 hours)
 BIOL 100 Principles of Biology 3
 BIOL 102 Principles of Biology Laboratory 1
 BIOL 240 Fundamentals of Human Anatomy 3
 BIOL 241 Human Anatomy Observation Laboratory 2
 BIOL 246 Principles of Human Physiology 3

Mathematics (3-5 hours)
 MATH 101 Algebra (3) **or** MATH 104 Precalculus Mathematics (5)
or MATH 115 Calculus I (3) (or exemption) 3-5

Physical Science (9 hours)
 PHSX 114 College Physics 4
 CHEM 125 College Chemistry (5) **or** 5
 CHEM 184 Foundations of Chemistry (5) 5

Behavioral Science (3 hours)
 PSYC 104 General Psychology 3

Social Sciences/Arts/Humanities (9 hours)
 Two courses from the Social Sciences and Humanities listings in this catalog. A student may not take more than two courses (6 hours) from any one content area 6
 PHIL 370 Moral Issues in Medicine (3) **or** 6
 PHIL 677 Medical Ethics: Professional Responsibilities (3) 3

Sport Foundation Core (9 hours)
 HSES 244 The History and Foundations of Physical Education 3
 HSES 260 Personal and Community Health 3
 HSES 269 Introduction to Exercise Science 3

Specialized Core in Athletic Training (68 hours)
 HSES 248 First Aid 2
 HSES 305 Procedures and Techniques for Physical Fitness Training ... 3
 HSES 310 Research and Data Analysis in Health, Sport, and Exercise Sciences 3
 HSES 330 Principles of Nutrition and Health 3
 HSES 350 Care and Prevention of Athletic Injuries 3
 HSES 351 Foundations of Athletic Training 1
 HSES 453 Communicable and Degenerative Diseases 3
 HSES 482 Drugs in Society 3
 HSES 528 Techniques of Athletic Training I: Lower Extremity 3
 HSES 529 Techniques of Athletic Training II: Upper Extremity 3
 HSES 640 Applied Sport and Performance Psychology 2
 HSES 654 Management and Treatment Techniques of Athletic Training 3
 HSES 656 Rehabilitation Techniques of Athletic Training 3

HSES 658 Organization and Administration Techniques of Athletic Training 2
 HSES 670 Introduction to Biomechanics 3
 HSES 672 Exercise Physiology 3
 HSES 673 Clinical Fitness Evaluation Techniques 3
 HSES 678 Introduction to Energy Balance and Weight Management ... 3
 HSES 680 Adaptive Physical Education and Recreation 3
 HSES 581 Athletic Training Practicum I: Recognition and Evaluation ... 4
 HSES 582 Athletic Training Practicum II: Management and Treatment 4
 HSES 583 Athletic Training Practicum III: Rehabilitation 4
 HSES 584 Athletic Training Practicum IV: Senior Sport Experience .. 4

Sport Science

Admission. Students may apply for admission twice a year. Complete an application and provide accompanying required information to the Welcome Center, 208 J.R. Pearson Hall, by February 1 for the fall semester or September 15 for the spring semester.

Program. The non-teacher-licensure sport science option prepares students for careers in sport- and fitness-related settings outside the public schools. Graduates are prepared to work in fitness, wellness, or rehabilitation programs, as sports and fitness management professionals, or to enter graduate study in physical therapy.

In addition to general education requirements, students complete major requirements in one of three emphases: exercise science, pre-physical therapy, or sports and fitness management. The core in sports and fitness management includes HSES courses and a concentration in business. All students must complete 12 hours of internship (30 hours a week for the entire 16 weeks) during the last semester. Pre-physical therapy students may do a split internship (Pre-PT and Exercise Science). Internships must be done at approved sites within a 50-mile radius of Lawrence. Students who have a 3.0 or higher cumulative grade-point average may petition to intern at an approved site beyond the 50-mile radius. All course work must be completed before the internship can be approved. A 2.5 cumulative grade-point average is required to apply for the internship and to graduate. General regulations of the school and university must be met.

Program Requirements. Courses marked with an asterisk (*) are required for admission.

Exercise Science

Language Arts and Communication (12 hours)
 *ENGL 101 Composition (or exemption) (3) **or** 3
 ENGL 105 Freshman Honors English (3) 3
 *ENGL 102 Critical Reading and Writing (3) **or** 3
 ENGL 205 Freshman-Sophomore Honors Proseminar (3) ... 3
 ENGL elective (3) 3
 *COMS 130 Speaker-Audience Communication (3) **or** 3
 COMS 150 Personal Communication (3) **or** 3
 COMS 230 Fundamentals of Debate (3) 3

Behavioral Science (3 hours)
 *PSYC 104 General Psychology 3

Social Sciences/Arts/Humanities (9 hours)
 *Any two required for admission:
 Three courses from the Humanities and Social Sciences principal course listings in this catalog. A student must not take more than two courses (6 hours) from any one content area 9

Science and Mathematics (31 hours)
 *BIOL 100 Principles of Biology 3
 *BIOL 102 Principles of Biology Laboratory 1
 BIOL 240 Fundamentals of Human Anatomy 3
 BIOL 241 Human Anatomy Observation Laboratory 2
 BIOL 246 Principles of Human Physiology 3
 BIOL 247 Principles of Human Physiology Laboratory 2
 CHEM 184 Foundations of Chemistry I 5
 CHEM 188 Foundations of Chemistry II 5
 PHSX 114 College Physics 4
 *MATH 101 Algebra or a MATH course higher than MATH 101 (excluding MATH 103, MATH 109, MATH 110) 3
 (This credit-hour requirement varies due to placement in math.)



Physical and Mental Health (10 hours)	
*HSES 244 The History and Foundations of Physical Education ..	3
*HSES 260 Personal and Community Health	3
*HSES 269 Introduction to Exercise Science	3
HSES 108 Basic Skill Instruction in (Fitness elective)	1
Major Requirements and Internship (59 hours)	
PSYC 350 Abnormal Psychology	3
HSES 248 First Aid	2
HSES 305 Procedures and Techniques for Physical Fitness Training	3
HSES 330 Principles of Nutrition and Health	3
HSES 350 Care and Prevention of Athletic Injuries	3
HSES 453 Communicable and Degenerative Diseases	3
HSES 482 Drugs In Society	3
HSES 489 Health and Human Sexuality	3
HSES 640 Applied Sport and Performance Psychology	3
HSES 670 Introduction to Biomechanics	3
HSES 672 Exercise Physiology	3
HSES 673 Clinical Fitness Evaluation Techniques	3
HSES 675 Administration of Health, Physical Education, and Sport Studies	3
HSES 680 Adaptive Physical Education and Recreation	3
HSES 690 Sociology of Sport	3
HSES 580 Internship in Exercise Science	12
One elective: HSES (numbered 300 or above) or BIOL (numbered 400 or above)	3
Pre-Physical Therapy	
Language Arts and Communication (12 hours)	
*ENGL 101 Composition (or exemption) (3) or ENGL 105 Freshman Honors English (3)	3
*ENGL 102 Critical Reading and Writing (3) or ENGL 205 Freshman-Sophomore Honors Proseminar (3) ..	3
ENGL elective (3)	3
*COMS 130 Speaker-Audience Communication (3) or COMS 150 Personal Communication (3) or COMS 230 Fundamentals of Debate (3)	3
Behavioral Science (6 hours). *One course required for admission:	
PSYC 104 General Psychology (3) or SOC 104 Elements of Sociology	3
Social Sciences/Arts/Humanities (9 hours)	
*Any two required for admission:	
Two courses from the Humanities and Social Sciences principal course listings in this catalog. A student must not take more than two courses (6 hours) from any one content area; one course must be numbered 300 or above	
PHIL 160 Introduction to Ethics (3) or PHIL 677 Medical Ethics: Professional Responsibilities (3) ..	3
Science and Mathematics (22-24 hours)	
*BIOL 100 Principles of Biology	3
*BIOL 102 Principles of Biology Laboratory	1
BIOL 240 Fundamentals of Human Anatomy	3
BIOL 241 Human Anatomy Observation Laboratory	2
BIOL 246 Principles of Human Physiology	3
BIOL 247 Principles of Human Physiology Laboratory	2
CHEM 184 Foundations of Chemistry I	5
*MATH 101 Algebra (3) and MATH 103 Trigonometry (2) or MATH 104 Pre-calculus (5) or MATH 115 Calculus (3)	3-5
(This credit-hour requirement varies due to placement in math.)	
Physical and Mental Health (10 hours)	
*HSES 244 The History and Foundations of Physical Education ..	3
*HSES 260 Personal and Community Health	3
*HSES 269 Introduction to Exercise Science	3
HSES 108 Basic Skill Instruction in (Fitness elective)	1
Major Requirements and Internship (65 hours)	
HSES 248 First Aid	2
HSES 330 Principles of Nutrition and Health	3
HSES 350 Care and Prevention of Athletic Injuries	3
HSES 482 Drugs In Society	3
HSES 670 Introduction to Biomechanics	3
HSES 672 Exercise Physiology	3
HSES 673 Clinical Fitness Evaluation Techniques	3
HSES 680 Adaptive Physical Education	3
HSES elective (300 level or higher)	3
BIOL 200 Basic Microbiology	3
BIOL 203 Introductory Microbiology Laboratory	2
CHEM 188 Foundations of Chemistry II	5
ABSC 160 Introduction to Child Behavior and Development	3
MATH 365 Elementary Statistics	3
PHSX 114 College Physics I	4
PHSX 115 College Physics II	4
PSYC 350 Abnormal Psychology	3
HSES 580 Internship in Pre-Physical Therapy (12) or HSES 580 Internship in Exercise Science (6) and HSES 580 Internship in Pre-Physical Therapy (6)	12

The Timetable of Classes is online at www.timetable.ku.edu.

The 2006 Fiske Guide to Colleges calls KU's School of Education a standout.

The Kyou portal gives Lawrence and Edwards Campus students access to many online services and resources. Visit <https://students.ku.edu>.

Sports and Fitness Management

Language Arts and Communication (12 hours)	
*ENGL 101 Composition (or exemption) (3) or ENGL 105 Freshman Honors English (3)	3
*ENGL 102 Critical Reading and Writing (3) or ENGL 205 Freshman-Sophomore Honors Proseminar (3) ..	3
ENGL elective (3)	3
*COMS 130 Speaker-Audience Communication (3) or COMS 150 Personal Communication (3) or COMS 230 Fundamentals of Debate (3)	3
Behavioral Science (3 hours). *One course required for admission:	
PSYC 104 General Psychology (3) or SOC 104 Elements of Sociology (3)	3
Social Sciences/Arts/Humanities (9 hours)	
*Any two required for admission:	
ECON 142 Principles of Microeconomics	3
PHIL 160 Introduction to Ethics	3
Elective (must be from the Humanities and Social Sciences principal course listings in this catalog)	
Science and Mathematics (17-18 hours)	
*BIOL 100 Principles of Biology	3
*BIOL 102 Principles of Biology Laboratory	1
BIOL 240 Fundamentals of Human Anatomy	3
BIOL 246 Principles of Human Physiology	3
One Natural Sciences and Mathematics: Earth Sciences (NE) or Physical Science (NP) course from the principal course listing in the online Undergraduate Catalog	
*MATH 101 Algebra or a MATH course higher than MATH 101 (excluding MATH 103, MATH 109, MATH 110)	3
(This credit-hour requirement varies due to placement in math.)	
Physical and Mental Health (9 hours)	
*HSES 244 The History and Foundations of Physical Education ..	3
*HSES 260 Personal and Community Health	3
*HSES 269 Introduction to Exercise Science	3
Major Requirements and Internship (74-75 hours)	
HSES 248 First Aid	2
HSES 330 Principles of Nutrition and Health	3
HSES 310 Research and Data Analysis in Health, Sport, and Exercise Sciences	3
HSES 453 Communicable and Degenerative Diseases	3
HSES 482 Drugs in Society	3
HSES 489 Health and Human Sexuality	3
HSES 625 Marketing Sports and Fitness Programs	3
HSES 630 Sport Law	3
HSES 640 Applied Sport and Performance Psychology	3
HSES 675 Administration of Health, Physical Education, and Sport Studies	3
HSES 690 Sociology of Sport	3
Two HSES fitness electives	
HSES electives (300 level or higher)	9-10
ACCT 200 Financial Accounting I	4
ACCT 201 Managerial Accounting I	3
BLAW 301 Legal Aspects of Business	3
IST 301 Introduction to Business Computing	3
MGMT 305 Survey of Management	3
MGMT 410 Human Resources Management	3
HSES 580 Internship in Sports/Fitness Management	12

Community Health

Admission. Students may apply for admission twice a year. Complete an application and provide accompanying required information to the Welcome Center, 208 J.R. Pearson Hall, by February 1 for the fall semester or September 15 for the spring semester.

Program. This nonlicensure option prepares students for health-related careers outside the schools. In addition to general education requirements, the program includes 45 major requirements, electives from courses complementary to the program, and a 12-hour internship. Students must be at the site for 30 hours per week for the entire 16-week semester. A 2.5 cumulative grade-point average is required to apply for the internship and to graduate. Students must complete at least 30 semester hours after admission to the school and meet other KU regulations to graduate. Consult the undergraduate office, 161 Robinson Center.

Program Requirements. Courses marked with an asterisk (*) are required for admission.

Language Arts and Communication (12 hours)
 *ENGL 101 Composition (or exemption) (3) **or**
 ENGL 105 Freshman Honors English (3) 3
 *ENGL 102 Critical Reading and Writing (3) **or**
 ENGL 205 Freshman-Sophomore Honors Proseminar (3) .. 3
 ENGL elective (3) 3
 *COMS 130 Speaker-Audience Communication (3) **or**
 COMS 150 Personal Communication (3) **or**
 COMS 230 Fundamentals of Debate (3) 3

Behavioral Science (6 hours). *One course required for admission:
 PSYC 104 General Psychology 3
 SOC 104 Elements of Sociology 3

Social Sciences/Arts/Humanities (9 hours)
 *Any two required for admission:
 Three courses from the Humanities and Social Sciences principal
 course listings in this catalog. A student must not take more
 than two courses (6 hours) from any one content area 9

Science and Mathematics (21 hours)
 *BIOL 100 Principles of Biology 3
 *BIOL 102 Principles of Biology Laboratory 1
 BIOL 200 Basic Microbiology 3
 BIOL 240 Fundamentals of Human Anatomy 3
 BIOL 246 Principles of Human Physiology 3
 CHEM 125 College Chemistry 5
 *MATH 101 Algebra or a MATH course higher than MATH 101
 (excluding MATH 103, MATH 109, MATH 110) 3
 (This credit-hour requirement varies due to placement in math.)

Physical and Mental Health (8 hours)
 *HSES 248 First Aid 2
 *HSES 260 Personal and Community Health 3
 *HSES 269 Introduction to Exercise Science 3

Major Requirements (39 hours)
 HSES 265 Peer Health Adviser Training 3
 HSES 310 Research and Data Analysis in Health, Sport, and
 Exercise Sciences 3
 HSES 330 Principles of Nutrition and Health 3
 HSES 434 Consumer and Environmental Health 3
 HSES 453 Communicable and Degenerative Diseases 3
 HSES 482 Drugs In Society 3
 HSES 489 Health and Human Sexuality 3
 HSES 565 Methods and Materials in Health Education 3
 HSES 573 Introduction to School and Community Health 3
 HSES 605 Administrating Health-related Programs 3
 HSES 618 Health Aspects of Aging 3
 PSYC 430 Cognitive Development 3
 JOUR 433 Strategic Communications 3

Electives (17 hours) Of the required elective hours, 6 hours must be
 selected from the following program areas and approved by your
 community health adviser, *before* taking the course.
 Spanish (any class level, *300 or higher*), psychology, sociology,
 anthropology, applied behavior sciences (ABSC), and women's
 studies. Elective classes *cannot* be used to satisfy *both* electives
 and social science/humanities preadmission requirements.

Internship (12 hours)
 HSES 580 Internship in Community Health 12

Music Education and Music Therapy

For degree requirements and course descriptions of music education and music therapy programs at KU, see the School of Fine Arts chapter of this catalog.

Visual Art Education

For degree requirements and course descriptions of visual art education programs at KU, see the School of Fine Arts chapter.

Education Courses

● **Curriculum and Teaching Courses**

C&T 100 Introduction to the Education Profession (3). This course is designed to acquaint students with the profession of education by helping to increase an awareness of the role and characteristics of an effective teacher. Large and small group activities and assignments are dispersed throughout the semester to facilitate these outcomes. Students will be involved in observation of and participation with teachers and pupils in public school classrooms, which complement course activities and assignments. Students will work with a mentor pre-service teacher from the KU School of Education to provide discussions about each of

the course objectives. C&T 100 is a pre-professional course. Successful completion of the course does not guarantee eventual admission to the School of Education's Teacher Education Program. LEC

C&T 200 Making Connections Between Schools and Community (3). This course is designed to increase the students' awareness of learning in the classroom and to familiarize them with the role of the school and the community. Institutions and resources that support children and families will be addressed through large and small group sessions and field experiences. Emphasis is given to the diverse nature of schools, communities, and their populations. In addition, the course will acclimate students with the School of Education programs, admissions procedures, and curriculum offerings. Successful completion of this course does not guarantee eventual admission of the School of Education's Teacher Education Program. Prerequisite: Successful completion of C&T 100. LEC

C&T 301 Instructional Technology in Elementary/Middle Education (3). The focus of this course is on developing integration strategies and acquiring computer skills for using instructional technology and educational software, digital media, and information technologies appropriate to elementary and middle school teaching environments. Students will gain expertise in (a) the selection of appropriate instructional technologies and digital media for use in the classroom; (b) production of technology-based instructional materials; and (c) the evaluation and validation of a variety of electronic information sources. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 302 Instructional Technology in Middle/Secondary Education (3). The focus of this course is on developing integration strategies and acquiring computer skills for using instructional technology and educational software, digital media, and information technologies appropriate to middle school and high school teaching environments. Students will gain expertise in (a) the selection of appropriate instructional technologies and digital media for use in the classroom; (b) production of technology-based instructional materials; and (c) the evaluation and validation of a variety of electronic information sources. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 322 Curriculum and the Learner in the Elementary School (3). Building on the experiences in C&T 100 and C&T 200, this course will focus on the learner in the elementary setting. Learning occurs as a result of interaction among learners, teacher and subject matter in the classroom within a school in a community. The impact of the interactions of these students of learning of young children is studied in this course. Emphasis is given to the factors that influence curriculum decision-making, and methods that are considered in elementary grades curriculum and how it is delivered. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 323 Curriculum and the Learner in the Middle Grades (3). Building on experiences in C&T 100 and C&T 200, this course will focus on the middle grades (ages 11 to 14). Learning occurs as a result of interaction among learners, teachers, and subject matter in a classroom within a school in a community. The impact of the interactions of these elements on the learning of young adolescents is studied in this course. Emphasis is given to the factors that influence curriculum decision-making, and the ways that the purposes of middle grades schools are reflected in middle grades curriculum and how it is taught. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 324 Curriculum and the Learner in the High School (3). Building on experiences in C&T 100 and C&T 200, this course will focus on the learner within the high school setting. Learning occurs in a classroom within a school in a community, and the nature and structure of these settings as well as their impact on learning is studied in this course. Emphasis is given to the curriculum, the factors that influence the curriculum, and the ways that goals for high school students are reflected in the high school curriculum. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 325 Education in a Multicultural Society (3). The course is designed to provide the student with an awareness of and sensitivity of the concept of multicultural education. Topics related to the rationale for and processes of providing a multicultural perspective within the schools will be addressed. Field experiences will be structured to provide students with opportunities to observe the diversity within our society. LEC

C&T 344 Children's Literature in the Elementary School (3). A study of literature (poetry, folk literature, fiction, and nonfiction) appropriate for elementary school children with a focus on contemporary children's books. Emphasis will be on selection of literature based on child development, literary quality, curriculum, and pluralism and the engagement of children in literature experiences from the interactive, reader response, and critical perspectives. Prerequisite: Admittance into the School of Education. LEC

C&T 347 Social Studies in the Elementary Classroom (3). A study of curricula, instructional strategies, and classroom organization for social studies education K-6. Emphasis is placed on the effective implementation of social studies programs in classroom settings. Prerequisite: Admission to the School of Education in elementary, middle, or secondary, or the Unified Early Childhood programs. LEC

The Department of Teaching and Leadership (T&L) has been reorganized into the Department of Curriculum and Teaching (C&T) and the Department of Educational Leadership and Policy Studies (ELPS).

T&L courses will be offered in the summer and fall 2006 terms only.

Beginning in spring semester 2007, C&T and ELPS courses will be offered.

KU students can access course information through Enroll & Pay, <https://sa.ku.edu>.

C&T 349 Science in the Elementary Classroom (3). In this course, you will develop an understanding of how children learn science and why science education is important. You will examine effective approaches to teaching, instructional materials, and student assessment and will learn how to plan and implement a science unit. The course will emphasize a guided-inquiry approach to science instruction appropriate for the abilities and interests of children in grades K-6. Prerequisite: Admission to the School of Education. LEC

C&T 351 Mathematics for the Elementary Classroom (3). This course is a study of the curriculum, instructional strategies, and classroom organization for mathematics in grades K-6. Emphasis is placed on the effective implementation of mathematics programs in classroom settings. Prerequisite: Admission to the School of Education. LEC

C&T 352 Literacy Instruction in the Primary Grades (K-3) (3). This course is intended to develop the attitudes, knowledge, and skills necessary to effectively instruct primary grades (K-3) children through the development of literacy skills: reading, writing, listening, speaking, spelling, and handwriting. The major goals of this course are for the prospective teacher to develop an understanding of literacy development of the primary-grades child, current literacy theories, and the ability to work with a number of approaches to promote literacy learning and a positive attitude toward literacy in all primary-grades students who may have different needs due to language, culture, learning challenges, and/or differing stages of development. This course is to be taken concurrently with C&T 353, Literacy Practicum in the Primary Grades. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 353 Literacy Practicum in the Primary Grades (1). This supervised practicum is intended to allow the pre-service teacher to apply the knowledge gained in C&T 352, Literacy Instruction in the primary grades (K-3), by teaching children in the primary grades. To be taken concurrently with C&T 352 Prerequisite: Admission to the Teacher Education Program. LEC

C&T 354 Literacy Instruction in the Intermediate Grades (4-6) (3). This course is intended to develop the attitudes, knowledge, and skills necessary to effectively instruct intermediate-grades children (4-6) through the development of literacy skills: reading, writing, listening, speaking, and spelling. The major goals of this course are for the prospective teacher to develop an understanding of literacy development of the intermediate-grades child, current literacy theories, and the ability to work with a number of approaches to promote literacy learning and a positive attitude toward literacy in all intermediate-grades students who may have different needs due to language, culture, learning challenges, and/or differing stages of development. This course is to be taken concurrently with C&T 355, Literacy Practicum in the Intermediate Grades. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 355 Literacy Practicum in the Intermediate Grades (4-6) (1). This supervised practicum is intended to allow the preservice teacher to apply the knowledge gained in C&T 354, Literacy Instruction in the intermediate grades (4-6), by teaching children in the intermediate grades. To be taken concurrently with C&T 354. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 359 Basic Processes of Reading (1). An introduction to reading in relation to specific areas of art, music and health and physical education. Focus on specialized vocabulary and literature related to each area. Introduction of specific strategies to teach vocabulary and comprehension and to integrated units of study. Prerequisite: Admission to certification program in music education, art education, health education, or physical education. LEC

C&T 413 The Reflective Practitioner in the Elementary Classroom (3). In this class, students will learn to think, feel, and act like elementary teachers. Aspects of this class will focus on reflecting upon, integrating, and applying pertinent knowledge and skills from previous professional education classes. Students will understand traditions of reflection and develop strategies that promote critical reflection. Students will learn and apply methods for assessing student learning to evaluate instruction and to improve practice. Students will apply self-reflection methods to developing a classroom management plan. LEC

C&T 414 The Reflective Practitioner in the Middle/Secondary School (4). In this class prospective teachers will learn to think, feel, and act like middle/secondary teachers. Aspects of this class will focus on reflecting upon, integrating, and applying pertinent knowledge and skills from previous professional education classes. Students will understand traditions of reflection and develop strategies that promote critical reflection. Students will learn and apply methods for assessing student learning to evaluate instruction and to improve practice. The prospective teacher will also apply self-reflection methods to develop a classroom management plan. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 420 Teaching Kansas Government: _____ (2). A study of the constitution, organization, functions, and processes of Kansas government, and strategies for teaching these in classrooms. Prerequisite: Admission to the School of Education. LEC

C&T 421 Economics for Elementary Teachers (3). The focus of this course is to introduce and develop understanding of economic concepts and principles in those preparing to teach elementary educa-

tion. This course presents students primarily with basic economic content and, secondarily, with information on developmentally appropriate economics for elementary age students. Emphasis will be placed on micro and macroeconomic concepts, including the economic problem, resources, scarcity, economic decision-making, opportunity cost, economic systems, price, exchange and money, markets, supply and demand, production, market failures and the role of government, and international trade. Open only to School of Education students enrolled in the elementary education program. LEC

C&T 422 Teaching Economics and Secondary Social Studies (2). The purpose of the course is to prepare secondary social studies education students to teach the major economic concepts, issues and systems in the United States and other nations in preparation for teacher licensure in the State of Kansas. Prerequisite: Admission to the Secondary History and Government teacher education licensure program. LEC

C&T 430 Teaching Literature for Young Adults (3). Teaching literature (novel, short story, poetry, drama, nonfiction) suitable for students in the middle school, the junior high school, and the senior high school. Ethnic literature, censorship, bibliographies, and other relevant sources of information about books for young adults will be studied. Prerequisite: Admission to the School of Education. LEC

C&T 440 Teaching English in the Middle/Secondary Schools (3). A study of philosophy, objectives, curriculum, procedures of instruction and evaluation in teaching English at the middle/secondary levels. Included will be a study of the methods of teaching literature, language and oral and written composition in English classes. A field experience may be a part of this course. Prerequisite: C&T 323 or C&T 324 or permission of instructor. LEC

C&T 441 Teaching Social Studies in the Middle/Secondary Schools (3). Study of curriculum development and instructional strategies appropriate for teaching social studies in grades 5-12. Prerequisite: C&T 323 or C&T 324 or permission of instructor. LEC

C&T 442 Teaching Science in the Middle/Secondary Schools (3). Study of the science content and process skills that should be taught in the middle/secondary schools. Emphasis also will be placed on instructional strategies such as concept mapping, Learning Cycle Model, and use of computers and networking in the science laboratory. A field experience is a required component of the course. Prerequisite: C&T 323 or C&T 324 or permission of instructor. LEC

C&T 443 Teaching Mathematics in the Middle/Secondary Schools (3). A study of philosophy, objectives, curriculum, instructional strategies and evaluation in teaching mathematics at the middle/secondary levels. Prerequisite: C&T 323 or C&T 324 or permission of instructor. LEC

C&T 444 Teaching Foreign Language in the Middle/Secondary Schools (3). A study of philosophy, objectives, curriculum, instructional strategies and evaluation in teaching foreign languages at the middle/secondary levels. A field experience is a required component of this course. Prerequisite: C&T 323 or C&T 324 or permission of instructor. LEC

C&T 448 Reading and Writing Across the Curriculum (3). Content area teachers do far more than impart information to students. They play an important role in guiding middle/secondary students as they use reading and writing as tools for learning. This course includes an overview of the state and national reading and writing scores of adolescents. Students will then be introduced to the basic processes or ways in which individuals may learn to read and write. The course continues with a focus on the instructional strategies and materials that promote the development of reading and writing in the context of teaching new information. Additionally, the course emphasizes the informal methods educators can use, on an on-going basis, to diagnose their students ability to comprehend content material. Finally, appropriate fix-up strategies will be modeled. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 490 Senior Internship I (4). Supervised field experience in an on-site educational setting that provides the student an opportunity to study and participate in the professional activities of a designated educational setting with emphasis on the planning, implementation, and evaluation of such activities. Regular conferences with faculty to evaluate student progress will be scheduled. Prerequisite: Admission to the non-certificate baccalaureate program. LEC

C&T 491 Senior Internship II (4). Supervised field experience in an on-site educational setting with increasing emphasis placed on an integration of formal learning and in site experience. Regular conferences with faculty will be scheduled. Prerequisite: Admission to the non-certificate baccalaureate program. FLD

C&T 492 Senior Colloquium (3). This course is designed to provide the prospective teacher with an in-depth exploration of interdisciplinary topics/issues such as media and society, the role of religion in scientific inquiry, the relationship between culture and language, policy and politics, social service sectors in society; coupled with professional education issues. The course is divided into three segments: 1) a speaker series with experts in predetermined fields/topics; 2) focus group(s) based on selected readings recommended by the speaker(s), or the faculty; and 3) application workshops that offer insight in how to connect the information and knowledge gained to school curricu-

lum, instruction and student learning to models of effective instruction. The course will also provide opportunities for several endorsement (content/level) meetings that are designed to assist the prospective teachers to reflect upon and synthesize what they acquired during their undergraduate teacher education program. Students will be expected to provide presentations that demonstrate this learning. Prerequisite: Admission to the Teacher Education Program. LEC

C&T 497 Independent Study in: ____ (1-2). Only one enrollment permitted each semester. A maximum of four hours will apply toward the bachelor's degree. Prerequisite: Recommendation of adviser and consent of instructor. IND

C&T 499 Bachelor's Project (4-6). A formal report of some aspect of the field experience that relates formal learning and in situ experience to program planning, implementation, and evaluation. Topic will be selected in consultation with the project adviser. Prerequisite: C&T490 and C&T 491 (C&T 491 may be taken concurrently). IND

C&T 500 Student Teaching in: ____ (1-6). A supervised teaching experience in an approved school setting, with level and subject area to be selected according to the teaching field. Prerequisite: Admission to the Student Teaching program. FLD

C&T 501 Student Teaching Practicum in: ____ (5-16). A supervised classroom teaching experience under the direction of an experienced teacher and in close relationship with a university supervisor. Prerequisite: Admission to the Graduate Certification Program and approval of adviser. FLD

C&T 598 Special Course: ____ (1-5). A special course of study to meet current needs of education students, primarily for undergraduates. LEC

C&T 615 Teaching English as a Second Language/Bilingual Education (3). The purpose of this course is to study the objectives and methods of ESL/Bilingual education. Students will examine methods and techniques of teaching: listening, speaking, reading, and writing in the ESL/Bilingual Education settings. The course will also emphasize the importance of culture in second language teaching, and self-evaluation of teaching and instructional materials. Prerequisite: Admission to the School of Education. LEC

C&T 616 Diagnosis and Remediation in Second Language Education (3). This course provides an overview of diagnostic techniques and instruments used to identify and remediate specific learning difficulties associated with normal second language development in the area of listening, speaking, reading, and writing. The course includes a review of research concerning assessment as it relates to error analysis in the second language context. Prerequisite: Admission to the School of Education. LEC

C&T 617 Second Language Acquisition (3). This course provides an intensive review of the theory and research base of second language acquisition. Particular attention is given to the influence of research trends in linguistics and psychology on second language education theory and practice. Current trends in second language education are examined in light of the historical theory base. Prerequisite: Admission to the School of Education. LEC

C&T 644 Understanding the Nature of Talent in Children and Youth (3). This course addresses the social, cognitive, affective, and other developmental aspects of talent as manifested in children and youth with high potential. The course provides an opportunity to examine characteristics, strengths, and needs of children and their families. The course focuses on the foundational aspects of gifted/talented education: educational and political history of the field, etiology of extraordinary potential, and identification and assessment techniques, instruments, and systems. Included in the course are relevant research, policies and regulations, services, and information resources. Prerequisite: SPED 425, SPED 431, SPED 725 or equivalent introductory course on exceptional children and youth. LEC

C&T 645 Teaching for Talent Development (3). The course introduces key theories and basic principles of curriculum development and introduction for students with high potential and/or high achievement. Frameworks and models for modifying general education content, cognitive processes, and learning outcomes are applied to enhancing talent development. The course addresses affective considerations, peer relations, and working with families. Prerequisite: C&T 644, C&T 744, or equivalent course. LEC

C&T 700 Teaching with Community, Contemporary, and Primary Resources (3).

C&T 701 Social Studies in the Elementary School (3).

C&T 702 Economic Education (2-3).

C&T 703 Curriculum Development in Economic Education (3).

C&T 704 Teaching Economics in: ____ (3).

C&T 705 International Issues in the K-12 Curriculum (3).

C&T 706 Social Studies in the Middle School (3).

C&T 707 Social Studies in the Secondary Schools (3).

C&T 708 Theory and Research in Social Studies Education (3).

C&T 709 Teaching and Learning Social Studies: (Geographic Concepts) (3).

C&T 710 Social Studies Programs in the K-12 Curriculum (3).

C&T 711 Teaching Native Americans in: ____ (1-3).

C&T 712 Teacher as Leader in the Education Community (2).

C&T 715 Understanding Research in Education (3).

C&T 716 Foundations of Reading: Process, Theory, and Instruction (3).

C&T 717 Reading Strategies for Expository Text (3).

C&T 718 Teaching Writing and the English Language (3).

C&T 719 Teaching Young Adult Literature (Grades 7-12) (3).

C&T 720 Writing and Spelling Development and Instruction (3).

C&T 721 Comprehension and Study Strategies for Use with Multiple Texts (3).

C&T 722 Teaching Literature to Children (3).

C&T 724 Language and Literature in the Reading Program (3).

C&T 725 Emergent Literacy and Beginning Reading (3).

C&T 726 Intervention for Beginning Readers—Practicum (2).

C&T 727 Developing Assessment and Instructional Plans for Students with Reading Difficulties (2).

C&T 728 Practicum for Students with Reading Disabilities: Pre-adolescent through Adult (3).

C&T 729 Introduction to Computing in Education (3).

C&T 730 Educational Media Development (3).

C&T 731 Design of Instructional Materials (3).

C&T 732 Science in the Elementary School (3).

C&T 733 Mathematics in the Elementary School (3).

C&T 734 Integration of Instruction in the Elementary School (2).

C&T 735 Instructional Strategies in: ____ (2).

C&T 736 Analysis of Teaching and Learning in: ____ (2).

C&T 739 Internship in Teaching: ____ (1-15).

C&T 740 Foundations of Curriculum and Instruction (3).

C&T 741 Introduction to Middle-level Education (3).

C&T 742 Planning for School Improvement (2-3).

C&T 743 Multicultural Education (3).

C&T 744 Understanding the Nature of Talent in Children and Youth (3).

C&T 745 Teaching for Talent Development (3).

C&T 746 Teaching for Talent in General Education Settings (3).

C&T 747 Practicum in Gifted and Talented Education (1-10).

C&T 748 Applied Research in the Classroom (2).

C&T 760 Curriculum Issues in Urban Education (2).

C&T 761 Planning Instruction and Instructional Strategies in Urban Settings (2).

C&T 762 Teaching Mathematics in the Urban Middle/Secondary School (3).

C&T 763 Teaching Science in the Urban Middle/Secondary School (3).

C&T 797 Special Project in: ____ (2).

C&T 798 Special Course: ____ (1-5).

● Educational Leadership and Policy Studies Courses

ELPS 200 Making Connections Between Schools and Community (3). This course is designed to increase the students' awareness of learning in the classroom and to familiarize them with the role of the school and the community. Institutions and resources that support children and families will be addressed through large and small group sessions and field experiences. Emphasis is given to the diverse nature of schools, communities, and their populations. In addition, the course will acclimate students with the School of Education programs, admissions procedures, and curriculum offerings. Successful completion of this course does not guarantee eventual admission of the School of Education's Teacher Education Program. Prerequisite: Successful completion of C&T 100. LEC

ELPS 450 Foundations of Education (3). A historical approach to the major social and philosophical foundations of American education, with an emphasis on the relation of educational theory to classroom practice. LEC

ELPS 497 Independent Study in: ____ (1-2). Only one enrollment permitted each semester. A maximum of four hours will apply toward the bachelor's degree. Prerequisite: Recommendation of adviser and consent of instructor. IND

ELPS 550 Childhood and Youth in America (3). A study of the changing role and character of childhood and youth as stages of life in the context of American educational and cultural history. LEC

ELPS 598 Special Course: ____ (1-5). A special course of study to meet current needs of education students, primarily for undergraduates. LEC

ELPS 652 Residential Staff Skill Enhancement and Administration (2-3). This special course of study in residential staff skill enhancement and administration is an exploration of concepts and skills necessary for becoming an effective paraprofessional staff member in a residen-

tial living unit. Each class session will include presentations and experiential learning on topics to develop or improve interpersonal skills and skill in dealing with special concerns. The course is required or recommended for all residence and scholarship hall staff and open to upper-class or graduate students interested in student personnel work. LEC

ELPS 715 Understanding Research in Education (3).

ELPS 737 The Governance and Organization of Schools (2-3).

ELPS 738 Applied Research in the Classroom (2).

ELPS 750 Principalship (3).

ELPS 751 Educational Finance (3).

ELPS 752 Education Law (3).

ELPS 753 Introduction to Personnel Administration in Education (3).

ELPS 754 Analysis of Administrative Problems (3).

ELPS 755 Human Resource Management (3).

ELPS 756 History of Educational Thought (3).

ELPS 757 Education in American Society (3).

ELPS 764 Historical and Philosophical Perspectives on Urban Education (2).

ELPS 770 History and Philosophy of Education (3).

ELPS 771 Philosophy of Education I (3).

ELPS 772 Philosophical Problems in Comparative Education (3).

ELPS 773 School and Society in Comparative Education (3).

ELPS 774 Modern Educational Theorists (3).

ELPS 775 History of Education and Culture in America (3).

ELPS 776 History of Childhood and Youth in America (3).

ELPS 777 Problems in Contemporary Educational Theory (3).

ELPS 778 Problems in Asian Education (3).

ELPS 780 Introduction to Higher Education Administration (3).

ELPS 781 Student Affairs Administration in Higher Education (3).

ELPS 798 Special Course: ____ (1-5).

● Health, Sport, and Exercise Sciences Courses

HSES 104 Physical Activity in: ____ (0.5-1). (An accurate description of the activity or activities will be given in the Timetable.) Graded on a satisfactory/unsatisfactory basis. ACT

HSES 108 Basic Skill Instruction in: ____ (0.5-2). (An accurate description of the activity or activities will be given in the Timetable.) ACT

HSES 110 Intermediate Skill Instruction in: ____ (0.5-2). (An accurate description of the activity or activities will be given in the Timetable.) ACT

HSES 112 Advanced Skill Instruction in: ____ (0.5-2). (An accurate description of the activity or activities will be given in the Timetable.) ACT

HSES 200 Coaching Certification for Youth Sports (2). This course will examine theories, practices, methods and techniques used to coach youth sports. Emphasis will be upon training, conditioning, sports psychology, nutrition, organization and management as prescribed by the National Federation of Interscholastic Coaches' Education Program. Students will have opportunity to receive coaching certification. Prerequisite: Open to physical education majors, or by consent of instructor. Students must pass the National Federation of Interscholastic Coaches' Education Program (NFICEP) examination before exiting the course. LEC

HSES 201 Team Sports (2). This course will deal with Soccer, Touch Football, Basketball, Softball, and Volleyball. Practice in construction of lesson plans and unit plans, skill performance and peer teaching practicum are emphasized in each of the areas of team sports. Class meets three days per week with one hour being a laboratory session. Prerequisite: Basic fitness and knowledge of the activities. Open to HSES majors and minors, or by consent of instructor. LEC

HSES 202 Individual and Dual Sports (2). Instruction and analysis in track and field, weight training and physical conditioning, and tennis and badminton. Practice in construction of lesson and unit plans, skill performance, and peer teaching practicum, are emphasized in each of the areas of individual and dual sports. Class meets three days per week with one hour being a laboratory session. Prerequisite: Basic fitness and knowledge of the activities. Open to HSES majors and minors, or by consent of instructor. LEC

HSES 204 Gymnastics (2). Instruction and analysis in the eleven gymnastics events for men and women. Skill performance, spotting and teaching techniques, lesson and unit plan construction, and teaching practicum constitute the basic focus of this course. Class meets three days per week with one hour being a laboratory session. Prerequisite: Basic fitness and gymnastics/tumbling experience. Open to HSES majors and minors, or by consent of instructor. LEC

HSES 210 Instruction and Analysis in: ____ (1-16). Study of the skills to be included in the instruction of the indicated activities and the analysis of skill performance involved. Presentation of instructional techniques and practice in construction of lesson and unit

plans are included for each activity. Open to majors in physical education only. The activities included in the major program are as follows: (a) Swimming (b) Folk and Square Dance (c) Modern Dance and Women's Gymnastics (d) Weight-Training and Men's Gymnastics (e) Soccer-Speedball, Volleyball, Wrestling (f) Field Hockey, Soccer-Speedball, Volleyball (g) Golf, Tennis, Badminton, Archery (h) Basketball, Softball, Flag Football, Team Handball (i) Track and Field, Handball-Paddleball, Fencing. Prerequisite: Basic fitness and basic skill in the course activities shown through competency tests and/or credit in basic skill courses in the appropriate activity. LAB

HSES 214 Physical Education Activities for Elementary School Children (2). This course will introduce the student to a variety of physical education activities that are appropriate for children in grades K-6. Age appropriate activities demonstrated in this course include: individual and group games, self testing games, stunts and tumbling experiences, physical fitness, modified sports, and movement exploration. Class participation will be expected for all students. Prerequisite: Open to Health and Physical Education Majors. LEC

HSES 218 Lifeguard Training (2). The course involves American Red Cross certification in lifeguarding which includes rescue techniques and safety procedures. It also includes first aid and CPR certifications. Each student will be asked to identify common hazards associated with various types of aquatic facilities and develop skills necessary to recognize a person in a distress or drowning situation and to effectively rescue that person. This course will help each student to understand the lifeguard/employer and lifeguard/patron relationship as well as provide explanations, demonstrations, practice and review of the rescue skills essential for lifeguards. Prerequisite: HSES 112 Advanced Skill Instruction in Swimming or consent of instructor. LEC

HSES 220 Officiating of: ____ (1). A study of the rules and techniques of officiating. Students will officiate during laboratory sessions. The activities offered in officiating are: basketball, football, gymnastics, softball, swimming, track and field, and volleyball. Prerequisite: Basic competency in the sport to be officiated, or consent of instructor. LEC

HSES 222 Water Safety Instruction (2). This course is designed to train instructor candidates to teach American Red Cross Swimming and Water Safety courses. Through practice teaching sessions, students will plan and organize skill development utilizing the various educational methods and approaches applicable to swimming and water safety instruction. Students will also learn the correct swimming styles taught by the Red Cross. Prerequisite: HSES 112 Advanced Skill Instruction in Swimming or consent of instructor. LEC

HSES 224 Lifeguard Training Instructor (2). This course is designed as a lecture/laboratory course, meeting for one hour three days per week. Each instructor candidate (student) will have an opportunity for skill development necessary to instruct American Red Cross Lifeguard Training courses. Through practice teaching sessions, emphasis will be placed on enforcing safety precautions, identifying errors, providing effective instruction, and skills correction. After successful completion of this course, the student will be certified to instruct the following American Red Cross Aquatic courses: (1) lifeguard training, (2) waterfront lifeguarding, (3) CPR for professional rescue, and (4) community first aid. Prerequisite: HSES 218 or lifeguard training. LEC

HSES 236 Practicum in: ____ (1-3). A description of the activities offered will be provided in the Timetable. Prerequisite: Consent of instructor. FLD

HSES 240 The Coaching of Football (2). A complete study of the theoretical aspects of the fundamentals of football. Study of defensive and offensive tactics for each position. Prerequisite: Sophomore standing. LEC

HSES 244 The History and Foundations of Physical Education (3). The history and development of modern physical education and the scientific foundations and principles underlying school and college physical education. LEC

HSES 248 First Aid (2). This course is designed to teach emergency treatment of injuries, wounds, hemorrhage, burns, and poisoning. Emphasis is placed on the techniques of rescue breathing, CPR, and emergency bandaging. American Red Cross certification is included. LEC

HSES 252 The Coaching of Basketball (2). Theory of basketball, including methods of teaching fundamentals; individual and team offense and defense; various styles of play and methods of coaching. Prerequisite: Sophomore standing. LEC

HSES 260 Personal and Community Health (3). Emphasis on healthful and intelligent living and the application of the fundamental principles of health. LEC

HSES 262 Life Skills Training for Intercollegiate Athletics (2). This course will focus on issues surrounding drug use, testing, and prevention in sports and will incorporate life skills training in the areas of career transition, stress and time management, performance enhancement, strategic learning skills, and the dynamics of communication and leadership. LEC

HSES 264 The Coaching of Individual Sports (2). An analysis of coaching techniques and study of materials for the coaching of gymnastics, swimming, golf, tennis, and wrestling. LEC

The Learning Resource Center in J.R. Pearson Hall contains a representative sample of instructional equipment found in modern schools.

Information about licensure is available in the Licensure Office in J.R. Pearson Hall.

In 1909, KU's education program was reorganized as the School of Education.

HSES 265 Peer Health Adviser Training (3). A course designed to train students to facilitate programs on sexual health, alcohol, and drug issues to a variety of campus settings, (i.e., residence halls, Greek organizations, classrooms, etc.). Subject content and teaching methodologies will be emphasized. Prerequisite: HSES 260 or instructor consent. LEC

HSES 269 Introduction to Exercise Science (3). A study of the various components of physical fitness and the wellness and the implications for developing programs to promote good health and fitness. Lectures and laboratory sessions will be centered on practical knowledge and experiences designed to help individuals enhance their own health, as well as develop sound programs for others. The topics discussed include cardiovascular fitness, body composition, muscular strength, flexibility, evaluation of fitness components, training program design, nutrition, weight management, and facts and fallacies of nutrition and fitness. LEC

HSES 290 Safety Education (3). A survey of safety problems as they exist in society today, with emphasis on preventive, corrective, and compensatory procedures. LEC

HSES 305 Procedures and Techniques for Physical Fitness Training (3). This course will provide the students with physical procedures and modalities used in basic resistance and fitness programs, strength and flexibility training, rehabilitation measures, and aerobic/cardiovascular endurance programs covering the life-span of our population. Prerequisite: Entry to the School of Education or instructor permission. LEC

HSES 310 Research and Data Analysis in Health, Sport, and Exercise Sciences (3). This course provides formal instruction in the areas of test administration, general statistics, and basic research design. Emphasis will be placed upon the interpretation of statistical data, evaluation of data, and basic methodologies utilized in health, sport, and exercise sciences research. Data collection, analysis, and evaluation will be an integral part of the class. Prerequisite: Admission to the School of Education. LEC

HSES 320 Methods of Teaching Physical Education (3). This course provides a systematic approach to the development of effective teaching skills in physical education. Students receive practical and field experiences that enable them to observe and practice managerial, instructional, and interpersonal skills necessary to produce student learning in K-12 physical education classrooms. Prerequisite: Admission to the HSES Teacher Certification Program. LEC

HSES 330 Principles of Nutrition and Health (3). This course will provide an introduction to the basic principles of nutrition, with an emphasis on application of these principles to improve overall health. Topics include: guidelines for a balanced diet, index of nutritional quality, energy requirements and balance, weight management and obesity, nutritional quackery, sports nutrition, nutrition for children and elderly, and eating disorders. LEC

HSES 340 Instructional Strategies in Motor Learning (2). This course will provide an in-depth study of motor skill acquisition among children, adolescents, and adults. Emphasis will be the discussion of motor learning concepts, developmental, and growth factors, learning theories (both physical and mental) and the techniques of motivation as related to planning and instruction in K-12 physical education classrooms. Laboratory experiences will enable students to examine motor learning concepts in a practical setting. Prerequisite: Admission to the HSES Teacher Certification Program. LEC

HSES 341 Instructional Strategies in Physical Education for Elementary Classroom Teachers (1). The application of child growth and development principles to physical education. The use of materials as related to a sequential physical education curriculum in the elementary school will also be included. Prerequisite: Prior or concurrent enrollment in C&T 322 or equivalent. LEC

HSES 350 Care and Prevention of Athletic Injuries (3). The introductory study of the prevention, immediate care, and treatment of athletic related injuries and illnesses. This course is designed to cover the basic fundamentals of injury/illness recognition as well as discuss the various strategies for the prevention and care of injuries to the physically active. Prerequisite: Courses in Human Anatomy and First Aid. LEC

HSES 351 Foundations of Athletic Training (1). This course is designed to introduce the practical skills and psychomotor clinical competencies of the beginning student-athletic trainer. Emphasis will be placed on basic athletic training procedures including but not limited to preventative taping, bracing, and padding techniques as well as various other procedures and techniques related to the prevention, care, and management of athletic related injuries/illnesses. Prerequisite: Human Anatomy, First Aid, concurrent enrollment in HSES 350. Open to Athletic Training majors only. LEC

HSES 378 The Coaching of Volleyball (2). Theory of volleyball, including methods of teaching fundamentals, individual and team offense and defense. Various styles of play and methods of coaching. Efficient performance of the skills during game conditions will be emphasized. LEC

HSES 379 The Coaching of Softball (2). Theory and fundamentals of coaching softball. Methods of coaching, as well as team offense, defense, and strategies will be stressed. Efficient performance of the skills during game conditions will be emphasized. Prerequisite: Consent of instructor. LEC

HSES 390 The Coaching of Track and Field (2). Designed to acquaint the student with the fundamentals of track and field athletics. LEC

HSES 395 Concepts in Health and Wellness (3). This is designed as an introductory course into the profession of School and Community Health Education. Regardless of a person's areas of specialization in Health Education, there are commonalities shared by all of us who are charged with the responsibility of providing education about health. Course emphasis will focus on: defining health education; history of health education; roles and competencies of health educators; theoretical bases for the profession; planning, implementing, administering, and evaluating health programs; settings for health education; future issues. Prerequisite: HSES 260. LEC

HSES 410 Program Design in Physical Education (3). The study of physical education curriculum models and extraclass programs appropriate for students in grades PK-12. Students will receive practical and field experiences related to program design and implementation. They will learn techniques appropriate for program evaluation as well as the assessment of student sport skills and fitness. Prerequisite: Admission to the HSES Teacher Certification Program. LEC

HSES 434 Consumer and Environmental Health (3). The course is divided into two, eight week sections. The first section, Environmental Health, consists of an in-depth overview of the interrelationship between environmental systems and humans and the impact of the ecosystem (air, water, noise, chemical, nuclear and industrial pollutants) on the health of individual communities. The second section, Consumer Health, consists of comprehensive examination of the factors involved in the selection and evaluation of health products and services including protection laws and services, fraudulent practices/products, consumerism, and traditional and alternative health care. Prerequisite: Admission into the Community Health program or consent of instructor. LEC

HSES 453 Communicable and Degenerative Diseases (3). This course is designed to introduce the student to the study of the basic concepts/principles of disease process. Special emphasis will be placed on the etiology, origin, symptoms, treatment, body defenses, primary prevention, host, agent, (microbes) and environmental factor affecting disease occurrence, prevention and control measures. Topical application of the fundamental concepts of microbiology in school/community health practice will be critically discussed. The natural history of disease and disease classification will be highlighted. Many disease topics (both communicable and chronic, degenerative diseases) will be discussed. Prerequisite: A course in personal and community health. LEC

HSES 482 Drugs in Society (3). This course is designed to provide an in-depth exposure to basic drug classification, pharmacological effects, causes of drug abuse to society, common treatment modalities, and effective prevention/intervention strategies. In addition, consumer issues related to drug use, drug legislation, and drug education programs for school and community implementation will be discussed. Prerequisite: A course in personal and community health or consent of instructor. LEC

HSES 489 Health and Human Sexuality (3). The course is designed to encompass the various components of human sexuality as well as to demonstrate applicable teaching techniques for sex education. Included in the content of the course are: human sexual response, sexually transmitted diseases, family planning, sex roles, rape, sexual preferences, and topics such as sexuality and the handicapped, sexuality and the mass media, and sexuality and the church. Teaching techniques such as values clarification, non-verbal communications, role playing, tape recordings, and problem solving are demonstrated with appropriate topics. LEC

HSES 497 Independent Study (1-3). Only one enrollment permitted each semester; a maximum of six hours will apply toward the bachelor's degree. This course cannot be taken as a substitute for a required course. Prerequisite: Recommendation of adviser and consent of instructor and department chair. IND

HSES 500 Student Teaching in: _____ (14). A supervised teaching experience in an approved school setting, teaching physical education at the elementary level and health and physical education at the secondary level. The student must teach 8 weeks at the elementary level and 8 weeks at the secondary level. Prerequisite: A cumulative GPA of 2.75 or higher and admission to the HSES teacher certification program. FLD

HSES 501 Seminar in Teaching Health and Physical Education (2). Student teachers will learn to analyze teaching styles and instructional methods that apply and/or relate to their student teaching experience. Discussions of various teaching practices will be facilitated by the university supervisor with input from the student teachers. Topics will include: curriculum, teaching methods, discipline, safety, equipment, and communicating with teachers, parents, and students. Prerequisite: Admission to the HSES Teacher Certification Program. LEC

HSES 502 Camp Leadership and Counseling (2). Involves a complete study of the organization and administration of the various types of camps. It is designed to familiarize the student with camp leadership responsibilities; the development of the camp, the program involving camp crafts, outdoor cookery, hikes and outings, singing, and simple guidance of the individual camper. Prerequisite: General psychology plus three hours in sociology. LEC

J.R. Pearson Hall, the home of the School of Education, has several fully mediated classrooms, seminar rooms, labs, and a 100-seat auditorium.

Students must complete general education requirements as well as major requirements. Some general education courses may be cross-listed with courses in the major. Students should consult their advisers as they plan their academic programs.

Course work at the graduate level is required during the licensure year.

HSES 515 Assessment of Motor Development and Motor Control of Exceptional Children (3). Standardized motor assessment tools appropriate for use with exceptional children with motor difficulty will be critiqued and practiced. A battery of tests to measure developmental lag or structural deviation will be selected and administered to determine the motor control of exceptional children and the results will be interpreted. Prerequisite: Six hours of physical education course work. LEC

HSES 528 Techniques of Athletic Training I: Lower Extremity (3). This course provides a comprehensive study of the techniques used by the Athletic Trainer in regard to the assessment and evaluation of athletic injuries/illnesses of the lower extremity, abdomen, and thorax, as well as the study of common illnesses/diseases that affect the physically active. Procedures for reporting and evaluating injuries/illnesses will be discussed so that appropriate injury management and referral may take place. The etiological factors common to athletic injuries, as well as specific signs and symptoms of various athletic related pathological conditions, will be discussed. Prerequisite: Human Anatomy, Human Anatomy Lab, Care and Prevention of Athletic Injuries, and admission to the Athletic Training Program. LEC

HSES 529 Techniques of Athletic Training II: Upper Extremity (3). The comprehensive study of the techniques used by the Athletic Trainer in regard to the assessment and evaluation of athletic injuries/illnesses of the upper extremity, head, and spine. Procedures for evaluating and reporting injuries/illnesses will be discussed as well as etiological factors and common signs/symptoms of various related pathological conditions. The purpose of this course is to prepare students with the skills necessary to accurately recognize the signs/symptoms of injuries and conditions in order to determine the nature and severity of the problem as well as establishing a proper care plan and medical referral when appropriate. Prerequisite: HSES 528 Techniques of Athletic Training - I Lower Extremity. LEC

HSES 558 Creative Movement and Dance Appreciation (3). Methods and techniques for teaching creative movement and dance composition to students in grades K-12 will be examined and practical application applied. An appreciation for dance will be developed through the study of the pioneers of American modern dance and the critique of local dance performances. Students will experience the following types of dance: creative movement, basic rhythms, modern dance, and folk dance. Prerequisite: Admission to the School of Education. LEC

HSES 565 Methods and Materials in Health Education (3). Emphasis is placed on the presentation and preparation of health topics along with the recommended resources and materials available. The teaching method is emphasized and student participation is stressed. Students will observe health teachers in the public schools and identify and discuss these methods as they relate to the methods present in the class. Prerequisite: Admission to teacher certification or consent of instructor. LEC

HSES 573 Introduction to School and Community Health (3). This course will provide an overview of school and community health professions. Areas of emphasis are: the nature of health education, responsibilities, needs, services, planning for teaching materials and evaluation of a school health program; the programs and services of voluntary and official health and welfare organizations. Prerequisite: A course in personal and community health. LEC

HSES 580 Internship in: ____ (2-16). A supervised internship experience in an approved setting. The specific type of internship experience and the credits for that particular experience will be outlined in the appropriate program of the student. Prerequisite: Admission to a HSES Internship Program. FLD

HSES 581 Athletic Training Practicum I: Recognition and Evaluation (4). This course provides a practical experience for the student-athletic trainer. Students gain experience through a hands-on approach via clinical settings and field experiences. Practical experiences are supervised by a Certified Athletic Trainer and provide opportunities for students to apply the knowledge and skills of injury/illness recognition and evaluation during their clinical and field experience. Specific skills addressed in HSES 528 will be practiced, applied, and mastered during this experience. Prerequisite: Admission to the Athletic Training program. Concurrent enrollment in HSES 528. LEC

HSES 582 Athletic Training Practicum II: Management and Treatment (4). This course provides a practical experience for the student-athletic trainer. Students gain experience through a hands-on approach via clinical settings and field experiences. Practical experiences are supervised by a Certified Athletic Trainer and provide opportunities for students to apply the knowledge and skills of injury/illness evaluation, and the management and treatment of athletic injuries through a variety of therapeutic modalities during their clinical and field experience. Specific skills addressed in HSES 529 and HSES 654 will be practiced, applied, and mastered during this experience. Prerequisite: HSES 581 and concurrent enrollment in HSES 529 and HSES 654. LEC

HSES 583 Athletic Training Practicum III: Rehabilitation (4). This course provides a practical experience for the student-athletic trainer. Students gain experience through a hands-on approach via clinical settings and field experiences. Practical experiences are supervised by a Certified Athletic Trainer and provide opportunities for students to apply the knowledge and skills of injury rehabilitation/recondition-

ing through a variety of therapeutic exercise techniques during their clinical and field experience. Specific skills addressed in HSES 656 will be practiced, applied, and mastered during this experience. Prerequisite: HSES 582, concurrent enrollment in HSES 656. LEC

HSES 584 Athletic Training Practicum IV: Senior Sport Experience (4). This course provides a culminating practical experience for the student-athletic trainer. Students gain experience through a hands-on approach via clinical settings and field experiences. Practical experiences are supervised by a Certified Athletic Trainer and provide opportunities for students to apply the knowledge and skills obtained during previous course work as well as apply administrative and management skills obtained in HSES 658. This course is intended to allow the Senior student more freedom and responsibility in decision making regarding the health care of an athletic team. Prerequisite: HSES 583, concurrent enrollment in HSES 658. LEC

HSES 598 Special Course: ____ (1-5). A special course of study to explore current trends and issues in health and physical education - primarily for undergraduates. LEC

HSES 605 Administrating Health-related Programs (3). This course will consist of an analysis of administration as it relates to both school and community health programs. The focus will be on administrative models and techniques used to establish and maintain sound health programs in school and community settings. Prerequisite: Six hours of health education or consent of instructor. LEC

HSES 608 Pool and Spa Management (3). This course will consist of administrative, supervisory, and maintenance techniques necessary to acquire a Certified Pool/Spa Operator's certification. Students will be required to acquire practical experience in pool management by observing and taking part in the management of the Robinson Center pools. Prerequisite: HSES 222 or HSES 438 or consent of instructor. LEC

HSES 618 Health Aspects of Aging (3). This course will consist of a Holistic Health approach to the various components of the aging process. Special emphasis will be placed on the demographic aspects of aging; normal aging changes and deviations in the aging process (pathophysiology); the relationship between mental and physical health, and the implications for the promotion of risk reduction and prevention principles that can effectively improve the quality of life for older individuals. Prerequisite: A course in personal and community health. LEC

HSES 625 Marketing Sports and Fitness Programs (3). This course is designed to offer undergraduate students a basic knowledge of the marketing strategies that can be utilized to promote the different areas that fall under the sport management areas. The course will also provide the students with an opportunity to apply this knowledge to realistic class projects. The foundational disciplinary model of instruction will be used. Prerequisite: Admitted to the Sport Sciences Program. LEC

HSES 630 Sport Law (3). This course is designed to offer undergraduate sport management majors a basic knowledge of the elements of the law that are related to sports and fitness management. Prerequisite: Admitted to Sport Sciences Program. LEC

HSES 640 Applied Sport and Performance Psychology (3). This course will examine the psychological principles and techniques that are applied to improve sport performance and other fields of achievement (e.g., exercise and wellness, music, and academics). Special attention will be given to psychological aspects of injury and rehabilitation, psychological conditioning, psychological training methods, coaching philosophy, the social psychology of team members, and components of peak performances. LEC

HSES 654 Management and Treatment Techniques of Athletic Training (3). This course discusses initial emergency care along with the progressive planning and implementation of a comprehensive treatment for injuries/illnesses sustained by the competitive athlete. Prerequisite: A course in recognition and evaluation techniques of athletic training. LEC

HSES 656 Rehabilitation Techniques of Athletic Training (3). This course discusses the planning involved and the implementation of a comprehensive rehabilitation program for injuries/illnesses sustained by the competitive athlete. Prerequisite: A course in management and treatment techniques of athletic training. LEC

HSES 658 Organization and Administration Techniques of Athletic Training (2). This course discusses the planning, coordinating, and supervising of all administrative components of an athletic training program. This includes public relations, athlete health counseling, and coach advisement about athletes' health matters. Prerequisite: A course in rehabilitation techniques of athletic training. LEC

HSES 670 Introduction to Biomechanics (3). The course is designed to cover a basic understanding of the anatomical and mechanical principles of human movement. Areas covered will be joint and segmental movement, muscle actions, time-displacement motion description, forces causing or inhibiting motion, and stability. Special attention will be given to the application of the theoretical concepts in movement activities. Prerequisite: A course in human anatomy. LEC

HSES 671 Applied Biomechanics (3). This course will examine the qualitative biomechanical analysis of human movement directed toward the goals of performance improvement and injury prevention

and rehabilitation. Specifically, this course will provide students with a basis knowledge of the biomechanical foundations of human movement, the knowledge and skills necessary to complete a systematic analysis and evaluation of human motor performance, and the ability to determine and provide interventions that are likely to improve movement in athletic, clinical, educational, and work environments. Prerequisite: A course in human anatomy, admission to the HSES Teacher Certification Program or consent of instructor. LEC

HSES 672 Exercise Physiology (3). A fundamental study of the physiological adjustments that occur within the body during exercise. The presentation of this material is particularly oriented toward a basic understanding of the physiological systems as they are affected by the activity of a normal coaching or teaching situation. The physiological values of exercise are also stressed. Prerequisite: Three hours of physiology. LEC

HSES 673 Clinical Fitness Evaluation Techniques (3). This course will provide the student with the knowledge and skills to assess components of physical fitness in adults including cardiorespiratory fitness, body composition, strength, and flexibility. In addition, specific emphasis will be placed on the development of exercise and weight management prescriptions. Students completing the course will have the skills to take the Health Fitness Instructor Certification exam given by the American College of Sports Medicine. Prerequisite: Exercise physiology or equivalent. LEC

HSES 675 Administration of Health, Physical Education, and Sport Studies (3). Embodies a study in the administration of school, college and private sector, health and physical education programs; the principles and administration of recreational sports programs; the administration of health examinations; the care and value of health examination records; the purchase and care of equipment and facilities needed in each of different settings; common methods of financing the various programs; the construction and design of facilities which house most of the activities. An additional aspect of the course is to present information on legal liability and risk management as they relate to programs in each of the areas. Prerequisite: Must have junior standing. LEC

HSES 678 Introduction to Energy Balance and Weight Management (3). This is an introductory course which describes mechanisms of energy intake and energy expenditure. It provides a survey of weight management strategies (increase/decrease) with emphasis on weight loss. Prerequisite: HSES 330 and HSES 672. LEC

HSES 680 Adaptive Physical Education and Recreation (3). This course includes a study of physical and neurological conditions that affect efficient body movement and motor development. Instruction, activities suitable for atypical cases, and curricular programming for all inclusive atypical populations will be presented. Prerequisite: A course in human anatomy and physiology. LEC

HSES 690 Sociology of Sport (3). A survey of the current literature concerning the scope of sociology in sport, the interaction of people in sport, the social systems controlling sport, and the small group dynamics in sport. Prerequisite: Three semester hours of sociology or consent of instructor. LEC

HSES 704 Principles of Physical Education (2).

HSES 707 Educational Conference in: _____ (1-3).

HSES 713 AIDS and STDs: Facts of Life (3).

HSES 714 Motor Development During Growth (3).

HSES 715 Understanding Research in HSES (3).

HSES 719 Tests and Measurements in Physical Education (3).

HSES 720 Financing and Marketing Leisure Services (3).

HSES 730 Advanced Concepts in Nutrition (3).

HSES 732 Applied Nutrition Laboratory (2-4).

HSES 743 Management of Recreation Areas and Facilities (3).

HSES 755 Physical Education for Mentally Retarded Populations (2).

HSES 760 Perceptual Motor Dysfunction (2).

HSES 769 Clinical Treatment of Perceptual Motor Dysfunction Cases (1-3).

HSES 770 Practicum in Motor Development of Exceptional Children (1-3).

HSES 771 Internship in Exercise Science (6).

HSES 772 Practicum in Human Motion Analysis (1-3).

HSES 774 Practicum in Stress Physiology (1-3).

HSES 775 Health Planning and Assessment (3).

HSES 777 Practicum in Health Education and Wellness Promotion (1-3).

HSES 778 Respiratory Physiology (3).

HSES 779 Physiology of Functional Aging (3).

HSES 780 Internship in Teaching Physical Education: _____ (1-16).

HSES 781 Internship in Teaching Health Education (1-16).

HSES 795 Traditions and Principles in Health Education (3).

HSES 798 Special Course: _____ (1-5).

● Psychology and Research in Education Courses

PRE 101 Orientation Seminar (1-2). This course will provide an introduction to the University community and the value and role of higher education in our society, strategies for successful transition to and participation in that community, exploration of the University commitment to diversity and multiculturalism, and information about University resources and procedures. Prerequisite: Eligible students must have fewer than thirty credit hours from the University of Kansas. LEC

PRE 106 Minority Student Leadership Seminar (2). This course will introduce students to leadership theory and develop personal skills in the areas of organizational, career, and community leadership. Topics covered include public speaking, group process, time management, and discussion of the special challenges for leaders of color. Prerequisite: Fewer than 30 credit hours from the University of Kansas. LEC

PRE 210 Career and Life Planning: Decision-making for College Students (3). The purpose of this course is to assist college students in career and life planning choices by first understanding the current theories of career decision-making and then by applying those theories to their own choices. The course will meet twice each week, the first being a lecture session, with the second session consisting of smaller groups of six to eight students. Students will be exposed to information related to the career development process, factors that affect the career choice process, knowledge of work environments, sex role socialization, career and decision making processes, and how to approach the job search. Experiential learnings will include exercises related to values clarification, self understanding, knowledge of interests, competencies and personality characteristics, decision making, use of career information, and implementing a plan of action. Weekly course assignments will include activities in class and homework units. Prerequisite: Enrollment in this course is limited to students with fewer than 60 hours of college credit. LEC

PRE 305 Development and Learning of the Young Child (3). An introduction to the psychological study of young children and their behavior in the pre-school and elementary school setting. Theories of learning, motivation and physical, cognitive, emotional and social development and their relevance to educational processes will be examined. Emphasis will be placed on observing and studying individuals and groups and describing their characteristics and the process of development, as well as considering implications for instructional strategies appropriate for this age group. Prerequisite: Admission to the Teacher Education Program. LEC

PRE 306 Development and Learning of the Adolescent (3). An introduction to the psychological study of adolescents and their behavior in the middle and high school setting. Theories of learning, motivation, and physical, cognitive, emotional and social development and their relevance to educational processes in secondary schools will be examined. Emphasis will be placed on observing and studying individuals and groups and describing their characteristics and the process of development, as well as considering implications for instructional strategies appropriate at the secondary level. Prerequisite: Admission to the Teacher Education Program. LEC

PRE 450 Introduction to Counseling Psychology (3). An historical and contemporary overview of the science and practice of counseling psychology, including trends in the roles and functions of counseling psychology practitioners, the research and scientific foundations of counseling practice, the psychological theories of counseling and psychotherapy that guide professional practice, and the ethical and professional issues confronting counseling practitioners. Prerequisite: PSYC 104. LEC

PRE 497 Independent Study (1-2). Only one enrollment permitted each semester, a maximum of four hours will apply toward the bachelor's degree. Graded on a satisfactory/unsatisfactory basis. Prerequisite: Recommendation of adviser and consent of instructor. IND

PRE 598 Special Course: _____ (1-5). A special course of study to meet current needs of education students—primarily for undergraduates. LEC

PRE 690 Introduction to School Psychology (3). This is a survey course on the roles and functions in school psychology practice. The course is designed to initiate and introduce new and prospective students into the field of school psychology. Prerequisite: Junior or senior standing and graduate students with less than 30 hours. LEC

PRE 700 Advanced Educational Psychology: Development and Education of the Adolescent (2-3).

PRE 702 Advanced Educational Psychology: The Development and Education of the Child (3).

PRE 703 Constructive Classroom Discipline (3).

PRE 704 Advanced Educational Psychology: Learning Processes in Education (3).

PRE 705 Human Development Through the Lifespan (3).

PRE 710 Introduction to Statistical Analysis (3).

PRE 711 Lab for Introduction to Statistical Analysis (1).

PRE 712 Beyond Curriculum: Assessment, Classroom Management, Counseling, and Consultation (3).

PRE 715 Understanding Research in Education (3).

PRE 720 Educational Measurement in the Classroom (3).

PRE 725 Educational Measurement (3).

PRE 740 Counseling and Interviewing Skills (3).

PRE 742 Counseling Theory and Techniques (3).

PRE 770 Developmental Psychopathology: Diagnosis, Intervention, and Prevention (3).

PRE 790 Research and Evaluation Proposal Development (3).

PRE 797 Independent Readings and Research in: _____ (1-3).

PRE 798 Special Course: _____ (1-5).

● Special Education Courses

SPED 261 Families and Professional Partnerships (3). This course provides information on issues and practices related to working together in partnership with families of young children including those who have a young child with special needs. Emphasis will be placed on taking a family systems prospective and a family-centered approach to family support. Strategies for effective communication for the purpose of information sharing and collaborative planning with families are provided. Relevant current scientifically based evidence will be reviewed and discussed pertaining to these topics. LEC

SPED 326 Teaching Exceptional Children and Youth in General Education (3). This course is designed for general education teacher trainees. It will provide them information about students with disabilities that they will have in their classrooms and the law governing special education and its implications for them as general educators. The course will address Individualized Educational Plans that are developed for students with disabilities and how general educators contribute to these plans. Students will learn about planning instruction that is differentiated to meet various learner needs, universal design principles and instructional tools, providing meaningful access to general education classrooms and curriculum for students with disabilities and designing and delivering appropriate accommodations and modifications to assist student learning. Prerequisite: Admission to the Teacher Education Program. LEC

SPED 362 Introduction to the Discipline of Early Education (3). The course serves as an introduction to the profession including historical, philosophical, social and psychological foundations, awareness of value, ethical and legal issues, staff relations and the importance of becoming an advocate for children and families. Students will analyze/interpret trends in early education, including diversity, early childhood special education, family centered practices, legislation, public policy, and developmentally appropriate practice. The two key professional organizations, National Association for the Education of Young Children (NAEYC) and Division of Early Childhood for the Council for Exceptional Children (DEC), recommended practices serve as the foundation for understanding the roles, knowledge and competencies of the early educator. LEC

SPED 425 Introduction to Exceptional Children and Youth (3). Designed for regular education teacher trainees, those in training for support roles in public schools and/or residential facilities (music educators/therapists, speech clinicians, etc.), and others interested in providing services for exceptional children and youth. Emphasis on the learning and adjustment problems of exceptional children and youth. Includes fieldwork experiences in residential and/or public school settings. LEC

SPED 431 Introduction to the Exceptional Child/Adolescent (1). The course is designed to provide the student with knowledge of and direct experiences within instructional settings that include one or more exceptional children. Structured experiences will be provided to (a) ensure mastery of skills in differentiating normal from atypical patterns of behavior in children or adolescents, (b) promote acquisition of skill in understanding the educational needs of exceptional learners as well as the procedures used to identify and provide instruction for them, (c) ensure the generalization of communication skills to the unique needs of exceptional learners in instructional settings, and (d) promote a positive attitude toward atypical students. LEC

SPED 497 Independent Study (1-2). Only one enrollment permitted each semester, a maximum of four hours will apply toward a bachelor's degree. Prerequisite: Recommendation of adviser and consent of instructor. IND

SPED 500 Introduction to Sign Language (3). This is an introductory course in Sign Language and includes ASL and English sign vocabulary, a description of all manual sign systems, medical aspects of hearing loss, communication and language, and Deaf culture and community. LEC

SPED 501 American Sign Language I (ASL I) (3). This course will cover the development of American Sign Language and its application within the Deaf Community. It is based on the functional-notational approach to learning sign language. This approach organizes language around communicative purposes of everyday interaction. LEC

SPED 502 American Sign Language II (ASL II) (3). This is the second level course in American Sign Language and its application within the Deaf Community. It is based on the functional-notational approach to learning sign language. This approach organizes lan-

guage around communicative purposes of everyday interaction. Prerequisite: SPED 501. LEC

SPED 503 American Sign Language III (ASL III) (3). This is the third level course in American Sign Language. The primary objective of the American Sign Language III "Signing Naturally" Level 2 curriculum is for students to continue using the two basic language skills: visual listening and signing. Prerequisite: SPED 502. LEC

SPED 504 American Sign Language IV (ASL IV) (3). This is the fourth level course in American Sign Language. The primary objective of the American Sign Language IV "Signing Naturally" Level 3 curriculum is for students to continue using the two basic language skills — visual listening and signing. Prerequisite: SPED 503. LEC

SPED 598 Special Course: _____ (1-5). A special course of study designed to meet current needs of education students; primarily for undergraduates. LEC

SPED 631 Characteristics of Students Needing an Adaptive Curriculum (3). This course is designed as an introduction to the definition, characteristics, causes, assessment, and specific remedial techniques for students needing an adaptive curriculum. The needs for specialized services to meet specific learning and/or behavioral needs will be presented. Students will learn about the history of serving children and youth with high incidence disabilities associated with specific learning, emotional/behavioral, mild mental retardation and a range of physical and health needs. Key individuals in the research of specific disabilities associated with these needs and how they helped expand our understanding of who these individuals are and how to address specific needs, will also be addressed. Learning characteristics will be addressed in relation to why and how specialized instruction can meet the learning and developmental needs of these individuals, specifically in the areas of instructional and assistive technology. LEC

SPED 632 Characteristics of Students Needing a Functional Curriculum (3). This introductory course provides an overview of the characteristics of learners with significant support needs. Students will learn to define and understand various classification systems and the implications of: low-incidence disabilities, significant cognitive disability, various vision and/or hearing impairments, including deaf-blindness motor disabilities, and health impairments. Students will be introduced to various etiologies: pre-, peri-, and post-natal causes, syndromes and chromosomal disorders, and biomedical causes of severe disability. Additional content includes anatomy of sensory organs, interpretation of pertinent medical reports, assessment procedures, and in school settings considerations (e.g., orientation and mobility, cochlear implants, medications, tube feeding, physical therapy, occupational therapy). Prerequisite: An introductory course in special education. LEC

SPED 633 Characteristics of Learners with Hearing Loss—Deaf Studies (3). Deaf Studies is the basic characteristics course for both the Master's degree in Deaf Education and for Kansas and Missouri endorsement in Deaf/HOH. The course includes medical aspects/etiology of hearing loss, history, pertinent laws, Deaf culture and community, issues in assessment and psychology, language and sign systems, multicultural education, multiple disabilities and hearing loss, and specific issues in the field. LEC

SPED 635 Characteristics of Children and Youth with Disabilities: _____ (3). Social, cognitive, emotional, and other developmental aspects associated with children and youth identified with learning disabilities, behavior disorders, and mental retardation are covered by this course. Characteristics, special needs, and service delivery approaches are compared and contrasted. Prerequisite: SPED 425 or SPED 725. LEC

SPED 641 Methods: Academic Instruction for Children and Youth with Disabilities in General Education and Learning Center Settings (3). This course is an initial methods course for individuals seeking licensure in Adaptive or Functional Special Education. The course addresses how to develop and write Individualized Educational Plans. Students learn about instructional planning to differentiate various learner needs, universal design principles, and developing appropriate accommodations and modifications to facilitate student learning. Particular attention is given to instructional strategies for supporting the development of literacy in reading and math. Prerequisite: SPED 631 or SPED 731, and SPED 632 or SPED 732. LEC

SPED 644 Methods for Teaching Learners with Hearing Loss (3). The purpose of this course is to provide students with appropriate instructional methodology for teaching students who are deaf or hard of hearing at the early childhood, elementary, and secondary levels. Upon completion, the student will be familiar with legal issues, IEP development, methods of instruction, assessment, curriculum planning, teaming, learning styles, behavior management, and transition issues. LEC

SPED 650 Curriculum and Methods of Instruction in Early Education (3). Students in this course will learn to design, implement and evaluate developmentally appropriate curricula and programs for children from birth to four years of age. Examination of historical, legal, philosophical and theoretical foundations of early childhood care and education for young children and their families will be addressed. Issues of curriculum design and assessment are introduced as interrelated processes that include structuring learning environments and experience that are responsive to children's interests and abilities. Students analyze and

KU's Department of Special Education was rated first in the nation among public universities in the 2006 U.S. News "America's Best Graduate Schools."

Students in the American Sign Language classes (SPED 500, SPED 501, SPED 502, and SPED 503) must earn a grade of C or higher in each level to be allowed to enroll in the next level.

See the School of Fine Arts chapter of this catalog for programs and courses in Music Education, Music Therapy, and Visual Art Education.

evaluate curriculum that focuses on the five developmental domains a) social emotional development; b) cognitive development; c) language and communication development; d) adaptive behavior development; and e) gross and fine motor development. Strategies for developing learning opportunities that are appropriate for young children, including children with special needs and children from diverse cultural, ethnic and linguistic backgrounds, will be explored. LEC

SPED 660 Education of Children and Youth with Disabilities I: ____ (3). This is a methods course that covers instructional approaches and procedures that offer developmentally appropriate, effective and inclusive early intervention for preschool and kindergarten age children who experience developmental delays, disabling conditions or who are at-risk for developmental problems and disabilities. It is directed toward: (a) “how” to teach, or the technical components of developing and delivering effective instruction that provide access to the general early childhood curriculum within recognized approaches to early childhood education for young children, and (b) the “what” to teach, or the selection of developmentally and individually appropriate child objectives as well as specific materials and specialized instructional approaches. The relationship of instructional planning to state and federal mandates will also be considered. The course is primarily intended for persons who are currently working toward certification in the ECSE program area. Prerequisite: SPED 425 or SPED 725, and SPED 735, which can be taken concurrently. LEC

SPED 672 Field Experiences with Exceptional Children and Youth: ____ (3). A course designed to provide experiences for students to participate with exceptional children in public schools and/or residential facilities and with professional personnel associated with the lives of exceptional students including special education teachers, child care workers, therapists, etc. Students will have opportunities to participate as aides, tutors, and instructors with individual and small groups of exceptional youth in one or more placements. Through weekly meetings with the instructor students are guided to relate their experiences to the needs and services for exceptional children and youth. Prerequisite: SPED 635. FLD

SPED 700 Introduction to Sign Language (3).

SPED 701 American Sign Language I (ASL I) (3).

SPED 702 American Sign Language II (ASL II) (3).

SPED 703 American Sign Language III (ASL III) (3).

SPED 704 American Sign Language IV (ASL IV) (3).

SPED 706 Advanced Practices for Children with Disabilities in the Elementary General Education Classroom (3).

SPED 707 Advanced Practices for Adolescents with Disabilities in the Middle/Secondary General Classroom (3).

SPED 708 Introduction to Hearing Impaired (2).

SPED 710 Methods of Teaching Language to the Deaf I (3).

SPED 715 Understanding Research in Education (3).

SPED 717 Exceptional Children in Regular Classrooms (3).

SPED 718 Instructional Planning for Children and Youth with Disabilities: ____ (1-3).

SPED 719 Learning and Technology (1).

SPED 724 Data-driven Instructional Decision Making (1).

SPED 725 Introduction to the Psychology and Education of Children and Youth with Disabilities (3).

SPED 726 Exceptionality and Technology (1).

SPED 729 Introduction to Computing in Special Education (3).

SPED 730 Characteristics of Students in the Adaptive and Functional Curriculum (3).

SPED 733 Characteristics of Learners with Hearing Loss—Deaf Studies (3).

SPED 735 Characteristics of Children and Youth with Disabilities: ____ (3).

SPED 740 Managing Classroom Behavior of Exceptional Children and Youth (3).

SPED 741 Methods and Assessment: Academic Instruction for Students with Disabilities in General Education and Learning Center Settings (3).

SPED 742 Methods and Assessment: Life Skills and Community-based Instruction (3).

SPED 743 Methods: Functional Behavioral Assessment, Positive Behavior Support, and Classroom Management (3).

SPED 744 Methods for Teaching Learners with Hearing Loss (3).

SPED 745 Audiology and Aural Rehabilitation (3).

SPED 751 Application of Assessment Information in Planning Instruments for Students with High-incidence Disabilities (Adaptive) (3).

SPED 760 Education of Children and Youth with Disabilities I: ____ (3).

SPED 761 Foundations of Positive Behavioral Support (PBS) (1).

SPED 762 Functional Assessment Methods for Positive Behavioral Support (PBS) (1).

SPED 763 Development and Implementation of PBS Plans (1).

SPED 764 Intervention Strategies for PBS-I (1).

SPED 765 Intervention Strategies for PBS-II (1).

SPED 766 Redesigning Environmental Systems (1).

SPED 767 Creating Positive Lifestyles through PBS (1).

SPED 772 Participation with Children and Youth with Disabilities: ____ (3).

SPED 774 Education of Secondary and Post-secondary Level Exceptional Students: ____ (1-3).

SPED 775 Practicum with Children and Youth with Disabilities: ____ (1-10).

SPED 785 Application of Assessment Information for Exceptional Children and Youth (3).

SPED 793 Psychology of Deafness (2).

SPED 798 Special Course: ____ (1-5).

School of Engineering

Stuart R. Bell, Dean
Eaton Hall, 1520 West 15th St., Room 1,
Lawrence, KS 66045-7621, www.engr.ku.edu

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Photo, page 296:

A mechanical engineering student conducts biomechanical research on an analog spine developed by KU Assistant Professor of Mechanical Engineering Lisa Friis.

School of Engineering

Stuart R. Bell, Dean
Eaton Hall, 1520 West 15th St., Room 1
Lawrence, KS 66045-7621
kuengr@ku.edu or www.engr.ku.edu
Phone: (785) 864-3881, Fax: (785) 864-5445
Degrees: B.S., M.S., M.E., M.C.E., M.C.M., D.E., Ph.D.

From communication systems to bridges, from satellites to manufacturing—society depends on engineers. A KU engineering education helps students understand technical principles and the background behind them and prepares them for the changes ahead. Most graduates assume responsible positions in business, industry, education, or government, but engineering programs also provide an excellent background for other careers. Many graduates are CEOs of major companies or enter fields like medicine or law.

The school offers 10 undergraduate degree programs: aerospace engineering, architectural engineering, chemical engineering, civil engineering, computer engineering, computer science, electrical engineering, engineering physics, mechanical engineering, and petroleum engineering. Engineering and computer science degree programs are accredited by the Accreditation Board for Engineering and Technology.

Mission

The mission of the school is to provide students a high-quality educational experience, to generate and apply knowledge through research, development, and scholarly activity, and to serve society, the state of Kansas, and the engineering profession. In accordance with this mission and with KU's mission, all undergraduate engineering programs and the computer science program must meet these objectives. Additional objectives are specified in program descriptions.

High School Preparation

Preparation for an engineering career begins in high school with basic mathematics and science courses. Prospective engineering students should take mathematics through at least trigonometry and at least one year of both chemistry and physics. A well-rounded background in English, history, economics, and social studies, preferably with some computer operations and programming and advanced mathematics, affords flexibility in choosing a concentration. A strong college preparatory program provides a good background for the student who plans to major in engineering.

Admission

First-year students may be admitted, but all admissions, both in-state and out-of-state, are selective. KU admission requirements are listed in the General Information chapter of this catalog. Applications are judged on several factors, including but not limited to high school record, scores on national tests, academic record at college or university level, and trend of grades. High school transcripts and ACT scores are required. Equivalent SAT scores may be substituted.

Minimum Academic Standards for Admission. To be considered for admission to the School of Engineering, beginning first-year students must meet or exceed the following minimum standards.

- 3.0 grade-point average on a 4.0 scale on the Kansas Qualified Admissions college-prep curriculum.
- Top 50 percent of the graduating class of an accredited high school or the equivalent.
- Mathematics ACT score of 22 (or math SAT score of 540). Some engineering degree programs may require a higher math ACT score.

These minimum admission standards apply to all departments. Meeting minimum requirements does not guarantee admission. Students applying to architectural engineering also must meet admission requirements of the School of Architecture and Urban Design.

Transfer Admission Standards. Applications from all transfer students, whether from other institutions or from other KU units, are evaluated on a case-by-case basis. In general, students with grade-point averages under 2.5 are not considered. Students must submit mathematics ACT or SAT scores or proof of competence in calculus (grade of C or higher). No upper-level engineering credits from non-ABET-accredited engineering programs are acceptable as transfer credit for engineering programs. Admission is selective, and meeting the minimum requirements does not guarantee admission.

Visit Our Web Site

The School of Engineering Web site, www.engr.ku.edu, has current information about the school. Visit the Web site for information about School of Engineering programs, facilities, services, resources, research, laboratories, policies, and procedures, as well as current information about the school's many active student organizations.

Advising

Engineering students are advised by engineering faculty members. Students are assigned an adviser by their engineering departments. Each entering first-year student is encouraged to attend KU's summer New

Photo, page 298:
Associate Professor of Aerospace Engineering Ron Barrett-Gonzalez (left) discusses innovations in unpiloted aerial vehicles with students.

Preparation for an engineering career begins in high school with basic mathematics and science courses.

First-year students may enter the School of Engineering. Admission is selective.

Career opportunities for engineers include a range of positions with business, industry, and government.

Student Orientation. At the summer orientation program, students are advised on course selection for the fall semester and given the opportunity to enroll. Students who cannot attend the orientation program confer with their advisers a day or two before classes start.

Each semester before enrollment, students see their faculty advisers to plan schedules and discuss other academic and career interests. Advising holds are placed on each student's enrollment; once a student has met with an adviser, the hold is released. Students are encouraged to call on their advisers any time during the school year if they wish to change their schedules or discuss other matters. Consultation with an adviser is recommended before making schedule changes. Undecided engineering majors are advised in the Office of the Dean, 1 Eaton Hall, (785) 864-3881.

Honors Programs

The school encourages all qualified students to participate in the University Honors Program. Students in engineering must meet with an engineering adviser every semester and may also meet with an honors program adviser. See University Honors Program under College of Liberal Arts and Sciences: General Information.

Some engineering departments offer an option to graduate with departmental honors. Individual departments set these requirements.

Financial Aid

The school has a scholarship program for entering first-year and transfer students. Engineering scholarships are awarded competitively according to academic ability and leadership potential and without regard to financial need. Awards range from \$1,000 to \$6,000 per year, and scholarships are renewable for a total of four years of undergraduate study. All students who apply for admission are considered for scholarships.

Students with financial need should file the standard application with the Office of Student Financial Aid, Strong Hall, 1450 Jayhawk Blvd., Room 50, Lawrence, KS 66045-7535, (785) 864-4700, www.financialaid.ku.edu. See Financial Aid under General Information.

Entry to the Profession

Licensing

Formal study in an accredited engineering program is the principal means of becoming licensed to practice engineering in Kansas and other states. During the junior or senior year, a student may take the national Fundamentals of Engineering examination. After four or more years (licensing regulations vary among states) of practice satisfactory to the board, the student may take the examination to become a registered professional engineer.

Job Search Assistance

The Engineering Career Center offers a comprehensive array of services to students seeking permanent employment and career-related summer or co-op employment. These include on-campus interviewing; two career fairs each year; individual advising and group workshops on résumés; interviewing, and job search strategies; online interviewing sign-up; online job

postings from many employers not interviewing on campus; a library of employer and career literature; and a Web résumé book searchable by employers.

Students are encouraged to visit the Engineering Career Center early in their undergraduate studies. Many employers actively seek KU engineering and computer science students. Some prefer to hire students as early as the first-year level for internships. The Career Center is at 1001 Eaton Hall; additional information is available from (785) 864-3891.

Regulations

For information about University of Kansas regulations, see the General Regulations chapter of this catalog. The rules and regulations of the School of Engineering are available at www.engr.ku.edu.

Bachelor of Science in Engineering

The B.S. degree is offered with majors in aerospace engineering, architectural engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, engineering physics, mechanical engineering, and petroleum engineering. The school also offers the B.S. degree in computer science.

First- and Second-year Preparation

Students usually enroll in engineering in their first year. The first few semesters of all the curricula contain a large proportion of common courses. Through proper planning with advisers, students may delay choosing specific fields for one or two semesters. Selecting the major by the beginning of the third semester is strongly encouraged so that the recommended schedule of classes can be followed.

Each engineering degree program includes courses in six general areas of study: basic sciences, communication, humanities and social sciences, basic engineering sciences, specialized engineering sciences, and engineering design. The computer science degree program has a similar structure, but computer science courses replace some engineering courses. Courses taken during the first two years are largely from the first three areas, with a few courses in the basic engineering sciences or computer science. The basic sciences include mathematics, chemistry, and physics and further course work in the earth and life sciences in some of the curricula. Courses in English composition and literature are required in all programs. Appropriate laboratory experience that combines elements of theory and practice is included in each student's program, together with extensive computer-based experience. In addition to the six general areas of study, architectural engineering requires four semesters of architectural design.

Minors

Engineering students may minor in many liberal arts areas. To earn a minor, a student must take at least 18 credit hours, 12 of which must be 300-level courses or above. If the department or program in the College of Liberal Arts and Sciences has additional requirements for the minor, students must meet those requirements also. Interested students should see an adviser in the department offering the minor and complete a minor declaration form.

Dual Enrollment

KU permits dual enrollment in two academic divisions. The student must plan carefully with special advisers in each area. The minimum time required for two degrees is at least one year longer than the minimum for one degree. The academically well-qualified student who is seriously considering dual enrollment might consider studying for the second degree at the graduate level. If the program is properly planned, it may be possible to earn one B.S. and one M.S. degree in about the same time required for two undergraduate degrees.

Preparation for Graduate Study

Undergraduates in the School of Engineering receive excellent preparation for pursuing graduate degrees. The school offers M.S. degrees as well as professional degrees. Students may apply for admission to graduate school during the senior year and may be co-enrolled during the final undergraduate semester. Admission to graduate school requires a minimum 3.0 grade-point average and completion of an ABET-accredited undergraduate degree. See the *Graduate School Catalog*.

Requirements for Graduation

In addition to completing each of the required and elective courses listed in the curriculum,

1. A student must attain a cumulative grade-point average of at least 2.0 in the courses applied toward the degree. A student must also have a KU cumulative grade-point average of 2.0 whether or not all courses are being applied to the degree.
2. A student must attain a cumulative grade-point average of at least 2.0 in all courses taken in the school, including courses not applied toward a degree.
3. A student entering with advanced standing must attain a cumulative grade-point average of at least 2.0 in the resident courses applied toward the degree and at least a 2.0 in all courses taken in the school.
4. A student must take the last 30 hours of credit toward the degree at KU and be officially enrolled in the School of Engineering during this time.

General Education Component

Students in all engineering curricula must take courses that complement the technical content. These must include courses in humanities and social sciences and course work that

- Fosters an understanding of professional and ethical responsibility.
- Promotes the ability to communicate effectively.
- Develops an understanding of the impact of engineering solutions.
- Advances the student's knowledge of contemporary issues.

Each engineering department specifies courses that fulfill this requirement.

Credit for ROTC Courses

A few credit hours from courses in aerospace studies, military science, or naval science may be applied toward graduation in lieu of certain required or elective courses. A student normally must complete the ROTC curriculum, whether or not it leads to a commission, to receive ROTC hours toward a bachelor's degree in engineering. The student should submit a petition for substitution of courses to the department.

The ROTC policy for each engineering degree program is listed with the information on each program.

Credit for Foreign Language Courses

Some foreign language courses may be applied toward graduation in engineering programs. A foreign language that is similar to the native language is not acceptable. Information on use of foreign language courses is available in each engineering program listing.

Petitions for Exceptions

A student seeking an exception to the rules and practices of the school should first consult an adviser and then petition the school to consider the exception.

Limitation on Enrollment in Engineering Courses

After the fifth day of classes, enrollment in a course offered by the school is permissible only with approval of the instructor and permission of the dean. The school reserves the right to deny admission to courses offered by the school to any student who is officially enrolled in another division of the university and does not meet the school's standards for admission or readmission.

Aerospace Engineering

Chair: Mark S. Ewing
 Learned Hall, 1530 West 15th St., Room 2120
 Lawrence, KS 66045-7609
 (785) 864-4267, www.enr.ku.edu/ae

The aerospace engineer is concerned with the design, production, operation, and support of aircraft and spacecraft. Aerospace engineers conduct research to solve problems and improve processes for the aerospace industry. The curriculum includes traditional courses in aerodynamics, flight dynamics and control, propulsion, structures, manufacturing, instrumentation, and spacecraft systems. Capstone design courses are offered in aircraft, propulsion, and spacecraft design.

Mission

KU aerospace engineering is an international leader in aerospace education committed to developing a global community of choice for students, educators, and researchers by strategically aligning teaching, research, and service missions. A world-class graduate and undergraduate education focused on designing, simulating, building, testing, and flying aerospace vehicles is provided. The department invests in research infrastructure and chooses outstanding students, faculty, and staff to conduct basic and applied research of relevance to aerospace vehicles and systems. The department supports the aerospace profession by educating the public, by maintaining the KU aerospace short-course program, and by advising policy-makers in government, industry, and disciplinary professional organizations.

Educational Objectives. Aerospace engineering prepares graduates for professional practice in the aerospace industry and graduate study in aerospace engineering. Achievement is measured through assessment of the performance of graduates three to six years after graduation. Graduates must demonstrate the following measurable learning outcomes:

1. Competence in the analysis, test, and design of aerospace systems and components using contemporary techniques, equipment, and software.
2. An understanding of the professional responsibilities associated with the special public safety and economic aspects of the aerospace industry.
3. The ability to communicate analysis, test, and design results to engineers and nonengineers.
4. The ability to work effectively in interdisciplinary teams.
5. An understanding of the need for lifelong learning.

Departmental Honors Program

To complete the departmental honors program, an aerospace engineering student must

- Graduate with a KU grade-point average of 3.5.
- Take at least one departmental honors course. The departmental honors courses are AE 546 Honors Aerodynamics, AE 573 Honors Propulsion, AE 509 Honors Aerospace Structures, AE 552 Honors Flight Dynamics and Control, and AE 593 Honors Research.

Students who intend to use departmental honors courses to meet the requirements of the University Honors Program or the departmental honors program must meet with the departmental honors adviser for permission to enroll.

First- and Second-year Preparation

The following are recommended enrollments:

First semester (16.2 hrs.): MATH 121, ENGL 101, CHEM 184, AE 245, AE 290.

Second semester (18.3 hrs.): MATH 122, ENGL 102, PHSX 211, C&PE 121 or EECS 138, AE 291, humanities or social sciences elective.

Third semester (16.2 hrs.): MATH 220, MATH 290, PHSX 212, CE 301, AE 290, AE 345.

Fourth semester (16.3 hrs.): MATH 223, PHSX 313, AE 445, CE 310, ME 312, AE 291.

Requirements for Enrollment in Junior-level Aerospace Courses

Enrollment in junior-level aerospace courses is limited to students who have received grades of C or higher in all first- and second-year courses in mathematics, physics, ME 312, CE 301, CE 310, AE 245, AE 345, and AE 445.

Requirements for the Bachelor of Science Degree in Aerospace Engineering

A minimum of 137 credit hours is required for the B.S. in aerospace engineering, distributed as follows:

Aerospace Engineering Courses (65 hours)	
AE 245 Introduction to Aerospace Engineering	3
AE 290 and AE 291 Aerospace Colloquium	2
AE 345 Fluid Mechanics	3
AE 421 Aerospace Computer Graphics	4
AE 430 Aerospace Instrumentation Laboratory	3
AE 445 Aircraft Aerodynamics and Performance	3
AE 507 Aerospace Structures I	3
AE 508 Aerospace Structures II	3
AE 510 Aerospace Materials and Processes	4
AE 521 Aerospace Systems Design I	4
AE 522 Aerospace Systems Design II (4) or AE 523 Space Systems Design I (4) or AE 524 Propulsion System Design I (4)	4
AE 545 Fundamentals of Aerodynamics	5
AE 550 Dynamics of Flight I	3
AE 551 Dynamics of Flight II	4
AE 571 Fundamentals of Airplane Reciprocating Propulsion Systems	3
AE 572 Fundamentals of Jet Propulsion	3
AE 590 Aerospace Seminar	1
Engineering Science Courses (19 hours)	
C&PE 121 Introduction to Computers in Engineering (3) or EECS 138 Introduction to Computing: ____ (3)	3
CE 301 Statics and Dynamics	5
CE 310 Strength of Materials	4
ME 312 Basic Engineering Thermodynamics	3
EECS 316 Circuits, Electronics, and Instrumentation	3
EECS 318 Circuits and Electronics Lab	1
Science Courses (13 hours)	
CHEM 184 Foundations of Chemistry I	5
PHSX 211 and PHSX 212 General Physics I and II	8

Mathematics Courses (18 hours)	
MATH 121 and MATH 122 Calculus I and II	10
MATH 223 Vector Calculus	3
MATH 220 Applied Differential Equations	3
MATH 290 Elementary Linear Algebra	2

English Courses (6 hours)	
ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3

General Education Component (14 hours)	
Economics elective	3
Humanities and social sciences electives	11

Technical Electives (9 hours)

Credit for ROTC Courses. A maximum of 5 credit hours of ROTC may be used in lieu of technical electives.

Credit for Foreign Language. Up to 6 hours of foreign language may count as general education component course work.

Professional Opportunities

Aerospace engineers design, develop, and test aircraft, spacecraft, and missiles and supervise manufacture of these products. They explore advances in air flight and space exploration. Aerospace engineers typically work for aircraft, guided missile and space vehicle industries, national research laboratories, commercial airlines, and federal government agencies.

● Aerospace Engineering Courses

AE 241 Private Flight Course (1). One hour of academic credit is given upon the awarding of the private pilot's license by the Federal Aviation Administration. Required documentation includes a letter from the F.A.A. designated examiner giving the check ride and a copy of the private license. The Department of Aerospace Engineering provides no ground or flight instruction. Open enrollment. Prerequisite: Consent of instructor. IND

AE 242 Private Flight Aeronautics (3). Three hours of academic credit is given for the successful completion of the F.A.A. private pilot's written examination. Required documentation is a copy of the written score. Open enrollment. IND

AE 245 Introduction to Aerospace Engineering (3). Basic systems of an aerospace vehicle, meteorology, vehicle performance, navigation and safety. Specific examples emphasize general aviation. Open enrollment. Corequisite: MATH 121. LEC

AE 265 Gateway to Space (2-3). Introduction to space engineering and atmospheric sciences. Fundamentals of space history, rocketry and spacecraft design. Construction and launch of nano-satellite using a high-altitude balloon. Participation of industry speakers to address the future of the aerospace industry and academic research possibilities. Prerequisite: Math 121. LEC

AE 290 Aerospace Colloquium (0.2). This is a required course for all aerospace engineering majors each fall semester. Topics of importance and new developments are discussed by aerospace industry representatives and representatives of F.A.A., D.O.T., D.O.D., N.A.S.A., related sciences, and engineering disciplines. A forum for student activities at all levels. Technical films. Open enrollment. LEC

AE 291 Aerospace Colloquium (0.3). A spring term continuation of AE 290. Open enrollment. LEC

AE 292 Aerospace Industrial Internship (1). This is a required course for all aerospace engineering majors who are in the Co-op program. Engineering internship in an approved company. Internship hours do not satisfy any course requirements for the bachelors degree in Aerospace Engineering but will appear on the official transcript. Prerequisite: Completion of freshman year. FLD

AE 345 Fluid Mechanics (3). Study of fundamental aspects of fluid motions and basic principles of gas dynamics with application to the design and analysis of aircraft. Open enrollment. Prerequisite: CE 301. LEC

AE 390 Aerospace Industrial Internship (1). This is a required course for all aerospace engineering majors who are in the Co-op program. Engineering internship in an approved company. Summer session. Internship hours do not satisfy any course requirements for the bachelors degree in Aerospace Engineering but will appear on the official transcript. FLD

AE 421 Aerospace Computer Graphics (4). Development of skills in depicting aerospace vehicles and their components and subsystems for the purpose of illustration, design, and analysis using traditional and modern (Computer Aided Design) drafting tools. LEC

AE 430 Aerospace Instrumentation Laboratory (3). Review and hands-on laboratory experiments with basic electronic elements (resistors, capacitors, conductors, transistors, linear circuits, logic devices, and integrated circuits). Overview and hands-on laboratory experiments using various experimental techniques available to the aerospace engineers (pressure probes, thermocouples, strain gauges, hot-wire anemometer, laser Doppler velocimeter, and flow visualization techniques). Prerequisite: AE 445 and EECS 318. LAB

See the General Information chapter of this catalog for admission procedures and application deadlines.

A former KU student and Flight Research Laboratory scientist and two NASA researchers have been recognized for the invention of a monitoring system to help pilots take off safely.

AE 441 Advanced Flight Training (1-3). Academic credit is given for the successful completion of advanced flight training beyond the private pilot rating. One hour is given for each of the following: commercial, instrument rating, certified flight instructor. The Aerospace Engineering Department provides no ground or flight instruction. Open enrollment. Prerequisite: AE 241. IND

AE 445 Aircraft Aerodynamics and Performance (3). Study of airfoil and wing aerodynamics, component drag, static and special performance, and maneuvers of aircraft. Open enrollment. Prerequisite: AE 345, CE 301. LEC

AE 490 Aerospace Industrial Internship (1). This is a required course for all aerospace engineering majors who are in the Co-op program. Engineering internships in an approved company. Internship hours do not satisfy any course requirements for the bachelors degree in Aerospace Engineering but will appear on the official transcript. Prerequisite: Completion of junior year. FLD

AE 491 Aerospace Industrial Internship (1). This is a required course for all aerospace engineering majors who are in the Co-op program. Engineering internships in an approved company. Fall semester. Internship hours do not satisfy any course requirements for the bachelors degree in Aerospace Engineering but will appear on the official transcript. Prerequisite: Completion of junior year. FLD

AE 492 Aerospace Industrial Internship (1). This is a required course for all aerospace engineering majors who are in the Co-op program. Engineering internships in an approved company. Spring semester. Internship hours do not satisfy any course requirements for the bachelors degree in Aerospace Engineering but will appear on the official transcript. Prerequisite: Completion of junior year. FLD

AE 507 Aerospace Structures I (3). Analysis and design of aerospace structures from the standpoint of preliminary design. Deflection and stress analysis of structural components, including thin-walled beams and built-up (semimonocoque) structures. Material failure of highly stressed components, including connections. Buckling of thin-walled beams and semimonocoque structures. Durability and damage tolerance strategies for aerospace structures to avoid corrosion, fatigue, and fracture. Prerequisite: CE 310 and MATH 220 or MATH 320. LEC

AE 508 Aerospace Structures II (3). Stress and deflection analysis of aerospace structures using the finite element method. Introduction to work-energy principles, including Castigliano's Theorems, for the analysis of statically indeterminate structures. Rod, beam, shaft, membrane, and plate finite elements. Prerequisite: AE 507. LEC

AE 509 Honors Aerospace Structures (3). Indeterminate structures, principle of virtual work, Castigliano's theorems, displacement method of finite element analysis; rod, beam, shaft, and membrane elements; analysis of aerospace structures with the finite element method. Prerequisite: AE 507. LEC

AE 510 Aerospace Materials and Processes (4). Properties and applications of aircraft materials, forming methods, and manufacturing processes. Prerequisite: AE 507 and CHEM 184. LEC

AE 521 Aerospace Systems Design I (4). Preliminary design techniques for an aerospace system. Aerodynamic design, drag prediction, stability and control criteria, civil and military specifications. Weight and balance. Configuration integration, design and safety, design and ethics. Prerequisite: AE 421, AE 508, AE 551, and AE 572. LEC

AE 522 Aerospace Systems Design II (4). Preliminary design project of a complete aircraft system. Prerequisite: AE 521. LEC

AE 523 Space Systems Design (4). Preliminary design project of a complete space system. Prerequisite: AE 521, AE 560, and PHSX 313. LEC

AE 524 Propulsion System Design I (4). Preliminary design project of a complete propulsion system, including the airframe. Prerequisite: AE 521. LEC

AE 545 Fundamentals of Aerodynamics (5). Basic gas dynamic equations, potential flow for airfoils and bodies, thin airfoil theory, finite wing, subsonic similarity rules, one and two dimensional supersonic flow, boundary layers, heat transfer, and laboratory experiments. Prerequisite: AE 445, ME 312, and MATH 220 or MATH 320. LEC

AE 546 Honors Aerodynamics (5). Basic gas dynamic equations, potential flow for airfoils and bodies, thin airfoil theory, finite wing, subsonic similarity rules, one and two dimensional supersonic flow, boundary layers and viscous flow, heat transfer, and laboratory experiments. A special project in aerodynamics for AE 546 students. Prerequisite: AE 445, ME 312, MATH 220 or MATH 320 and MATH 290. LEC

AE 550 Dynamics of Flight I (3). General equations of motion of rigid airplanes and reduction to steady state flight situations. Steady state forces and moments. Stability derivatives. Static stability, control and trim. Trim envelope. Relationships with handling quality requirements. Engine-out flight. Effects of the control system. Implications to airplane design. Prerequisite: AE 445 and MATH 290, and MATH 220 or MATH 123. LEC

AE 551 Dynamics of Flight II (4). General equations of motion of rigid airplanes and reduction to perturbed state flight situations. Perturbed state forces and moments. Stability derivatives. Dynamic stability, phugoid, short period, dutch roll, roll, spiral, and other important modes. Transfer functions and their application. Relationships with handling quality requirements. Fundamentals of classical control theory and applications to auto-

matic flight controls. Implications to airplane design. Prerequisite: AE 550 and a course in differential equations (MATH 250 or MATH 320). LEC

AE 552 Honors Flight Dynamics and Control (4). General equations of motion of rigid airplanes and reduction to perturbed state flight situations. Perturbed state forces and moments, stability derivatives, dynamic stability, phugoid, short period, dutch roll, roll, spiral, and other important modes. Transfer functions and their application. Relationships with handling quality requirements. Fundamentals of classical control theory and applications to automatic flight controls. Implications to airplane design. Prerequisite: AE 550 and a course in differential equations (MATH 220 or MATH 320). LEC

AE 560 Spacecraft Systems (3). Fundamentals of spacecraft systems and subsystems. Spacecraft systems engineering, space environment; basic astrodynamics; and the following spacecraft subsystems; attitude determination and control; electrical power; thermal; propulsion; structures and mechanisms; command, telemetry, and data handling; and communications. Prerequisite: AE 507, EECS 318, MATH 124, and ME 312 or equivalents. LEC

AE 571 Fundamentals of Airplane Reciprocating Propulsion Systems (3). Study of the basic principles of operation and systems of internal and external combustion engines with emphasis on airplane reciprocating engines. Cycle analysis, propeller theory, propeller selection and performance analysis. Prerequisite: AE 445 and ME 312. LEC

AE 572 Fundamentals of Jet Propulsion (3). Lecture and laboratory, study of basic principles of propulsion systems with emphasis on jets and fan systems. Study of inlets, compressors, burners, fuels, turbines, jets, methods of analysis, testing, performance; environmental considerations. Prerequisite: AE 545 and AE 571. LEC

AE 573 Honors Propulsion (3). Lecture and laboratory, study of basic principles of propulsion systems with emphasis on jets and fan systems. Study of inlets, compressors, burners, fuels, turbines, jets, methods of analysis, testing, performance; environmental considerations. Prerequisite: AE 545 and AE 571. LEC

AE 590 Aerospace Seminar (1). Presentation and discussion of technical and professional paper reports. Methods for improving oral communication. Discussion of topics such as ethics, registration, interviewing, professional societies, personal planning. Prerequisite: Senior standing. LEC

AE 592 Special Projects in Aerospace Engineering (1-5). Directed design and research projects in aerospace engineering. Prerequisite: Consent of instructor. IND

AE 593 Honors Research (1-5). Directed design and research projects in aerospace engineering. Prerequisite: Consent of instructor. IND

AE 670 Aerospace Propulsion III (3). Advanced theory of turbojet, fanjet (multi-spool), variable cycle engines, ramjet and bypass air breathing propulsion systems. Theory and design of inlets, compressors, burners and turbines. Component matching, cooling, regenerative systems, test methods and corrections. Prerequisite: AE 572. LEC

AE 701 Structural Design (3).

AE 704 Dynamics and Vibrations (3).

AE 705 Structural Vibrations and Modal Testing (4).

AE 707 Aerospace Structural Loads (3).

AE 708 Aerospace Structures III (3).

AE 709 Structural Composites (3).

AE 710 Advanced Structural Composites (3).

AE 712 Techniques of Engineering Evaluation (3).

AE 721 Aircraft Design Laboratory I (4).

AE 722 Aircraft Design Laboratory II (4).

AE 724 Propulsion System Design and Integration (3).

AE 725 Numerical Optimization and Structural Design (3).

AE 730 Advanced Experimental Fluid Dynamics (3).

AE 731 Supersonic Aerodynamics Laboratory (1).

AE 732 Introduction to Flight Test Engineering (3).

AE 743 Compressible Aerodynamics (3).

AE 745 Applied Wing and Airfoil Theory (3).

AE 746 Computational Fluid Dynamics (3).

AE 748 Helicopter Aerodynamics (3).

AE 750 Applied Optimal Control (3).

AE 751 Advanced Airplane Dynamics (2).

AE 753 Digital Flight Controls (3).

AE 754 Missile Dynamics (3).

AE 760 Spacecraft Systems (3).

AE 765 Orbital Mechanics (3).

AE 766 Spacecraft Attitude Dynamics and Control (3).

AE 767 Spacecraft Environments (3).

AE 771 Rocket Propulsion (3).

AE 772 Fluid Mechanics of Turbomachinery (3).

AE 790 Special Problems in Aerospace Engineering (1-5).

Chemical and Petroleum Engineering

Chair: Laurence R. Weatherley
 Learned Hall, 1530 West 15th St., Room 4132
 Lawrence, KS 66045-7609
 (785) 864-4966, www.engr.ku.edu/cpe

Mission

The overall mission of the B.S. degree program is to provide a modern chemical or petroleum engineering education with proper balance between theory and practice. Graduates are prepared for professional practice in industry or government and for post-undergraduate training in chemical or petroleum engineering, medicine, etc. In addition to scientific and engineering training, students receive training in communication skills and in the humanities and social sciences.

Departmental Honors Program

A student may receive departmental honors by completing the B.S. with an overall grade-point average of 3.5 in courses taken at KU and 3.5 in KU engineering courses and by completing C&PE 661 Undergraduate Honors Research for a minimum of 3 credit hours with a grade of A or B. Students with overall grade-point averages of 3.5 in courses taken at KU and 3.5 in KU engineering courses are allowed to enroll in C&PE 661 in the second semester of the junior year. Enrollment in C&PE 661 constitutes acceptance into the honors program. The departmental honors designation appears in the commencement program and on the transcript.

Chemical Engineering Program

Chemical engineering has grown out of a combination of chemistry and engineering associated with industrial processes. Today, it possesses a body of knowledge used in the synthesis, design testing, scale-up, operation, control, and optimization of processes that change the physical state or composition of materials. Chemical engineers have played central roles in the industrial development of materials that have had major social influence, such as the production of fuels and lubricants, fertilizer, synthetic fibers, and plastics. They will be centrally involved in reducing the polluting effects of certain byproducts and cleaning up unwanted residues from previous processes.

The first part of the program offers courses on the fundamental principles underlying the conversion of raw materials into a desired product by chemical and physical processes. Development of the concepts of engineering design begins with the application of fundamental principles to solve engineering problems in these courses and culminates in a series of senior-level design courses that require comprehensive integration of technical knowledge as well as consideration of economic, environmental, safety, and societal concerns. This experience is essential in preparing graduates for entry-level positions.

Educational Objective. The objective of the program is to prepare graduates for professional practice in industry, government, or post-undergraduate training in chemical engineering, medicine, and other related disciplines.

First- and Second-year Preparation. Recommended enrollments for the first two years are as follows:

First semester (15 hrs.): C&PE 111, MATH 121, CHEM 184, ENGL 101.
 Second semester (16 hrs.): C&PE 121, MATH 122, CHEM 188, ENGL 102.

Third semester (17 hrs.): C&PE 211, PHSX 211, MATH 290, MATH 223 or MATH 220, CHEM 624, CHEM 625.

Fourth semester (16 hrs.): MATH 320 or elective (see MATH courses below), chemistry elective, PHSX 212, advanced English, C&PE 221.

Requirements for the Bachelor of Science Degree in Chemical Engineering. Following are descriptions of the General Program, the Biomedical concentration, the Petroleum concentration, the Premedical concentration, and the Environmental concentration, as well as the Co-Op program.

1. A student must attain a cumulative grade-point average of at least 2.0 in C&PE courses taken at KU through the junior year before being admitted to senior-level courses.

2. A student must attain a cumulative grade-point average of at least 2.0 in C&PE courses taken at KU for graduation with a B.S. degree in chemical or petroleum engineering.

General Program. A total of 132 hours is required:

Chemical Engineering Science (17 hours)	
C&PE 111 Introduction to the Chemical Engineering Profession ..	2
C&PE 121 Introduction to Computers in Engineering	3
C&PE 211 Material and Energy Balances	3
C&PE 221 Basic Engineering Thermodynamics	3
C&PE 511 Momentum Transfer	3
C&PE 521 Heat Transfer	3
Chemical Engineering Sciences and Design (13 hours)	
C&PE 512 Process Engineering Thermodynamics	3
C&PE 523 Mass Transfer	4
C&PE 524 Chemical Engineering Kinetics and Reactor Design ..	3
C&PE 615 Introduction to Process Dynamics and Control	3
Chemical and Petroleum Engineering Design and Integrating Courses (17 hours)	
C&PE 522 Economic Appraisal of Chemical and Petroleum Projects ..	2
C&PE 613 Chemical Engineering Design I	4
C&PE 616 Chemical Engineering Laboratory I	3
C&PE 623 Chemical Engineering Design II	2
C&PE 624 Plant and Environmental Safety	3
C&PE 626 Chemical Engineering Laboratory II	3
Engineering Science/Design Electives (12 hours). Seven hours of engineering science are required from any field of engineering. The remaining 5 hours may be engineering science or design. At least 5 elective hours must be in engineering areas outside the department, and 3 hours must be in chemical and petroleum engineering. A maximum of 6 hours may be taken in chemical engineering. All electives must be selected from an approved list available in the department.	
Basic Sciences (18 hours)	
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ...	10
PHSX 211 and PHSX 212 General Physics I and II	8
Advanced Chemistry (16 hours)	
CHEM 624 Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 646 Introduction to Physical Chemistry	4
Chemistry or biochemistry electives, selected from courses numbered 500 and above or approved natural science courses	7
Mathematics (15-18 hours)	
MATH 121 and MATH 122 Calculus I and II	10
One of the following options:	5-8
<i>Option A</i> (8 hours): MATH 223 Vector Calculus (3)	
MATH 290 Elementary Linear Algebra (2)	
MATH 320 Elementary Differential Equations (3)	
<i>Option B</i> (5-8 hours): MATH 220 Applied Differential Equations (3)	
MATH 290 Elementary Linear Algebra (2)	
Elective: Mathematics (selected from courses numbered above MATH 124, except MATH 320), science, engineering, humanities, or social sciences elective (3)	
General Education Component (15 hours)	
Advanced English (ENGL 203 or any advanced English course designated H)	3
Humanities and social sciences courses	12
English (6 hours)	
ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
Biomedical Concentration. The student in the biomedical concentration takes the same courses specified for the General Program, with the following substitutions:	
Mathematics (15 hours, Option B—see General Program)	
Advanced Chemistry (16 hours) including:	
CHEM 624 Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 Organic Chemistry II	3

Students entering the first year in C&PE have consistently had high ACT scores.

Federally funded science and engineering research expenditures at the Lawrence and KU Medical Center campuses climbed to \$110.8 million in fiscal year 2005, an 8.7 percent increase over 2004.

CHEM 646 Introduction to Physical Chemistry	4
BIOL 600 Introductory Biochemistry, Lectures	4
Basic Sciences (Add 6 hours in restricted electives)	
BIOL 100 Principles of Biology	3
BIOL 246 Principles of Human Physiology	3
Engineering Science/Design Electives (11 hours). Seven hours of engineering science are required from any field of engineering. The remaining 4 hours may be engineering science or design. At least 5 elective hours must be taken from engineering areas outside the department, and 3 hours must be taken in chemical and petroleum engineering. A maximum of 6 hours may be taken from chemical and petroleum engineering. Electives, in all cases, must be selected from an approved list available in the department.	
C&PE 651 Undergraduate Problems	3
C&PE 656 Introduction to Biomedical Engineering	3
Five hours of engineering science/design electives subject to requirements above	5

Petroleum Engineering Concentration. The petroleum engineering concentration in chemical engineering is distinct from the B.S. in petroleum engineering degree (see below). A total of 132 credit hours is required for this concentration. The student takes the same courses specified for the General Program, with the following modifications:

Mathematics (15 hours, Option B—see General Program)	
Advanced Chemistry (12 hours)	
CHEM 624 Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 646 Introduction to Physical Chemistry	4
Chemistry or biochemistry elective, selected from courses numbered 500 and above	3
Geology (5 hours)	
GEOL 101 Introduction to Geology (3) and	
GEOL 103 Geology Fundamentals Laboratory (2)	5
Engineering Science/Design Electives (14 hours) including:	
C&PE 517 Reservoir Engineering I	4
C&PE 527 Reservoir Engineering II	4
Petroleum engineering elective	3
Engineering elective	3

Premedical Concentration. A total of 134 credit hours is required for a B.S. in chemical engineering for students who plan to apply for admission to medical school. Additional hours are recommended (see Biological Science below). Premedical students take the same courses specified above in these categories:

Chemical Engineering Science (17 hours—see General Program)	
Chemical Engineering Sciences and Design (13 hours—see General Program)	
Chemical and Petroleum Engineering Design and Integrating Courses (17 hours—see General Program)	
Engineering Science/Design Electives (11 hours—see General Program)	
Basic Sciences (18 hours—see General Program)	
Mathematics (15 hours, Option B—see General Program)	

In addition, the following are required:

Advanced Chemistry (14 hours)	
CHEM 624 Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
CHEM 626 Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
CHEM 646 Introduction to Physical Chemistry	4
Biological Science (8 hours minimum)	
BIOL 150 Principles of Molecular and Cellular Biology	4
BIOL 152 Principles of Organismal Biology	4
The following courses are recommended but not required:	
BIOL 350 Principles of Genetics (3)	
BIOL 416 Cell Structure and Function (3)	
BIOL 646 Mammalian Physiology (4) and BIOL 647 Mammalian Physiology Laboratory (2) or	
BIOL 246 Principles of Human Physiology (3)	
General Education Component (15 hours)	
Advanced English (ENGL 203 or any advanced English course designated H)	3
Humanities (H) and social sciences (S) electives	12
English (6 hours—see General Program)	

Environmental Concentration. The student in the environmental concentration takes the same courses

specified for the General Program, with the following restricted electives:

Mathematics (15-18 hours, see General Program)	
Engineering Science/Design Electives (12 hours)	
CE 477 Introduction to Environmental Engineering and Science ...	3
Six hours from the following principles courses:	6
CE 770 Concepts of Environmental Chemistry (2)	
GEOL 753 Chemical Hydrogeology (3)	
CE 771 Environmental Chemical Analysis (1)	
CE 772 Physical Principles of Environmental Engineering Processes (3)	
CE 773 Biological Principles of Environmental Engineering (3)	
CE 774 Chemical Principles of Environmental Engineering Processes (3)	
Three hours from the following topics courses:	3
CE 776 Contaminant Transport (3)	
CE 777 Industrial Water and Wastes (3)	
CE 778 Air Quality (3)	
CE 779 Water Quality (3)	

The Co-Op Program is essentially the same as the General Program with the timing modified to include Co-Op employment.

Credit for ROTC Courses. Only ROTC courses qualifying as engineering electives and humanities/social sciences may be used.

Credit for Foreign Language. Foreign language courses listed as H or WH count toward the humanities requirement. Courses listed as S or WS count toward the social science requirement. A maximum of 6 hours listed as U count toward the humanities requirement if the student is not a native speaker of that language.

Professional Opportunities. Chemical engineers are concerned with the chemical processes that turn raw materials into valuable products. They serve industrial and other activities where processes occur in which materials undergo a chemical or physical change. Chemical engineers build a bridge between science and manufacturing, applying the principles of chemistry, biology and engineering to solve problems involving the production or use of chemicals. Chemical engineers typically work for manufacturing companies, environmental companies, health care and pharmaceuticals, petroleum industry, biotechnology, or consulting firms.

Petroleum Engineering Program

Petroleum engineering is the branch of engineering concerned with the drilling, recovery, production, and distribution of petroleum and natural gas. It includes knowledge of the properties of fluids and rocks in surface and subsurface environments as well as methods of exploiting the economic production of oil and gas from petroleum reservoirs. A major subdivision at KU is reservoir engineering, or the development of processes to improve production from oil and gas reservoirs. Reservoir engineers use sophisticated mathematical techniques and computer technology to obtain optimum production. Through such techniques, petroleum engineers continue to extract oil and gas from reservoirs that only a few years ago would have been considered uneconomical. This branch of engineering is somewhat different from the other in that production is far removed from physical observation.

The curriculum develops fundamental concepts that describe the properties of fluids and rocks in surface and subsurface environments. These are integrated with courses covering fluid flow in reservoirs along with drilling and production equipment to develop a broad understanding of how fundamental concepts are used to solve technical problems. The development of engineering design concepts begins with the application of fundamental principles and concepts to solve engineering problems in these courses and culminates in a series of senior-level de-

sign courses that require comprehensive integration of technical knowledge as well as consideration of economic, environmental, safety, and societal concerns. This experience is essential in the preparation of graduates for entry-level positions.

Educational Objective. The objective of the program is to prepare graduates for professional practice in industry, government, or post-undergraduate training in petroleum engineering and other related disciplines.

First- and Second-year Preparation. Recommended enrollments for the first two years are as follows:

First semester (14 hrs.): C&PE 117, MATH 121, CHEM 184, ENGL 101.
Second semester (17 hrs.): C&PE 121, C&PE 127, MATH 122, CHEM 188, ENGL 102.

Third semester (18 hrs.): C&PE 211, PHSX 211, MATH 290, MATH 223 or MATH 220, advanced English, HSS elective.

Fourth semester (17 hrs.): C&PE 221, MATH 320 or elective numbered MATH 124 or above, GEOL 101 CE 201, PHSX 212.

Requirements for the Bachelor of Science Degree in Petroleum Engineering

1. A student must attain a cumulative grade-point average of at least 2.0 in C&PE courses taken at KU through the junior year before being admitted to senior-level courses.

2. A student must attain a cumulative grade-point average of at least 2.0 in C&PE courses taken at KU for graduation with a B.S. degree in chemical or petroleum engineering.

A total of 132 hours is required, as follows:

Petroleum Engineering Science (25 hours)	
C&PE 117 Introduction to Petroleum Engineering Profession I ..	1
C&PE 127 Introduction to Petroleum Engineering Profession II ..	1
C&PE 121 Introduction to Computers in Engineering	3
C&PE 211 Material and Energy Balances	3
C&PE 221 Basic Engineering Thermodynamics	3
C&PE 511 Momentum Transfer	3
C&PE 517 Reservoir Engineering I	4
C&PE 521 Heat Transfer	3
C&PE 527 Reservoir Engineering II	4
Design and Integrating Courses (22 hours)	
C&PE 522 Economic Appraisal of Chemical and Petroleum Projects ..	2
C&PE 528 Well Logging	3
C&PE 617 Drilling and Well Completion	3
C&PE 618 Secondary Recovery	4
C&PE 619 Petroleum Engineering Laboratory I	2
C&PE 627 Petroleum Production	3
C&PE 628 Petroleum Engineering Design	3
C&PE 629 Petroleum Engineering Laboratory II	2
Engineering Science Electives (9 hours)	
CE 201 Statics	2
EECS 315 Electric Circuits and Machines	3
CE 310 Strength of Materials	4
Basic Sciences (37 hours)	
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ..	10
CHEM 622 Fundamentals of Organic Chemistry	3
PHSX 211 and PHSX 212 General Physics I and II	8
Basic science or engineering science elective	3
GEOL 101 Introduction to Geology (3) and	
GEOL 103 Geology Fundamentals Laboratory (2)	5
GEOL 331 Sedimentology and Surface Processes	4
GEOL 535 Petroleum and Subsurface Geology	4
(If GEOL 331 or GEOL 535 is not offered, GEOL 562 Structural Geology may be substituted for one of these courses.)	
Mathematics Courses (18 hours)	
MATH 121 and MATH 122 Calculus I and II	10
One of the following options:	8
Option A: MATH 223 Vector Calculus (3)	
MATH 290 Elementary Linear Algebra (2)	
MATH 320 Elementary Differential Equations (3)	
Option B: MATH 220 Applied Differential Equations (3)	
MATH 290 Elementary Linear Algebra (2)	
Mathematics elective (selected from courses numbered above MATH 124, except MATH 320) (3)	
General Education Component (15 hours)	
Advanced English (ENGL 203 or any advanced English course designated H)	3
Humanities and social sciences courses	12
English (6 hours)	
ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3

Credit for ROTC Courses. Only ROTC courses qualifying as engineering electives and humanities/social sciences may be used.

Credit for Foreign Language. Foreign language courses listed as H or WH count toward the humanities requirement. Courses listed as S or WS count toward the social science requirement. A maximum of 6 hours listed as U count toward the humanities requirement if the student is not a native speaker of that language.

Professional Opportunities. Petroleum engineers search the world for reservoirs containing oil and natural gas. Once these resources are discovered, petroleum engineers work to understand the geologic formation and properties of the rock containing the reservoir, determine the drilling methods to be used, and monitor drilling and production operations. They design equipment and processes to achieve the maximum profitable recovery of oil and gas. Petroleum engineers typically work for major oil companies, independent oil exploration, and production and service companies.

● Chemical and Petroleum Engineering Courses

C&PE 111 Introduction to the Chemical Engineering Profession (2). An introduction to the University of Kansas and work done by professional engineers. Students are introduced to the resources available to them at KU, in the School of Engineering, and in the Chemical and Petroleum Engineering Department. They are introduced to the curricula requirements and expectations of chemical engineering students. The career opportunities for chemical engineers are described. Students are introduced to engineering ethics, basic safety considerations, teamwork, and technical writing. The course includes fundamental calculations of material and energy balances and fluid flow. LEC

C&PE 117 Introduction to Petroleum Engineering Profession I (1). Lectures, discussion, calculations, and field trips to introduce students to the kind of problems addressed, and the kinds of work done by professional petroleum engineers. The course also introduces the students to the department, its faculty, and its curricula. C&PE 117 is required of petroleum engineering entering freshmen but is optional for others. Transfer students who don't take the course must substitute with one hour of appropriate credit. LEC

C&PE 121 Introduction to Computers in Engineering (3). Formulation of engineering problems for machine computation with emphasis on good programming practices and the integration of appropriate computational and related tools. Solutions are computed using Excel, Visual Basic, and general purpose languages such as Mathcad and/or MATLAB. Computing methods are introduced as tools for developing solutions using elementary numerical techniques including linear interpolation, linear regression, numerical integration, and root finding. Microsoft Office is used with the computational tools to provide integrated report generation capability. Two lectures and weekly laboratory instruction. Prerequisite: MATH 121. LEC

C&PE 127 Introduction to Petroleum Engineering Profession II (1). An introduction to principles of reservoir engineering and an application of economic principles will be introduced along with the use of computer spreadsheets. A mini petroleum engineering design project will be assigned to illustrate the integration of petroleum engineering principles and the use of computers. C&PE 127 is required of all Petroleum Engineering freshmen but is optional for others. Transfer students who don't take the course must substitute C&PE 127 with one hour of engineering science. LEC

C&PE 211 Material and Energy Balances (3). The application of the laws of chemistry, physics, and mathematics to the solution of material and energy balance problems occurring in the process industries. Prerequisite: C&PE 121 or consent of instructor and CHEM 188. LEC

C&PE 221 Basic Engineering Thermodynamics (3). An introduction to the concepts of heat, work, the first law and second law of thermodynamics, and equations of state. These concepts are applied to flow and non-flow systems including power, heat pump and refrigeration cycles. Prerequisite: MATH 122 or permission of instructor. Prerequisite or Corequisite: C&PE 121 and PHSX 211. LEC

C&PE 511 Momentum Transfer (3). Solutions of continuity, momentum, and energy equations applied to fluids in confined flow or flowing past submerged objects. Laminar and turbulent flows of both incompressible and compressible fluids are considered. Engineering applications include pressure drop and network analysis of piping and transmission lines, flow measurement and fluid moving equipment. Prerequisite: C&PE 221. LEC

C&PE 512 Process Engineering Thermodynamics (3). Further development of the laws of thermodynamics to treat chemical and petroleum processes. Analysis and application of Gibbs and Maxwell relations. Development and use of partial molar properties and fugacities. Development, analysis and application of excess free energy relations, including equations of state and solution models, to analyze and describe phase equilibria. Prerequisite: C&PE 221. Prerequisite or Corequisite: C&PE 211. LEC

In recent years, three juniors in C&PE have received prestigious Goldwater scholarships. A senior recently received a Churchill scholarship for study at the University of Cambridge.

Faculty members in C&PE have won every school and KU teaching award. More than 90 percent of C&PE courses are taught by professors or by instructors with doctoral degrees.

C&PE 517 Reservoir Engineering I (4). Properties of porous rocks, reservoir fluids, and fluid saturated rocks. Introduction to multiphase flow in porous media including concepts of wettability, capillary pressure and relative permeability. Prerequisite: CHEM 188. Corequisite: C&PE 211. LEC

C&PE 521 Heat Transfer (3). An applied study of the various (conductive, convective, and radiative) heat transfer mechanisms in solid and fluid systems. Engineering applications include: conduction in solids and fluids, free and forced convection in fluids, simple and solar radiation, boiling and condensing fluids, and design of heat exchangers, evaporators, and furnaces. Prerequisite: C&PE 221 and a course in differential equations. LEC

C&PE 522 Economic Appraisal of Chemical and Petroleum Projects (2). Consideration of the economic factors important in the development of the chemical or petroleum enterprise. Applications of economic evaluation methods to engineering project development. Consideration of risk and uncertainty in project development. Prerequisite: MATH 122, C&PE 121, PHSX 211, and C&PE 221 or consent of instructor. LEC

C&PE 523 Mass Transfer (4). Includes one credit hour of calculations laboratory. Treatment of mass transfer phenomena with application to analysis and design of unit operations equipment such as distillation, extraction, absorption, and adsorption. Prerequisite: C&PE 211, C&PE 511, and C&PE 512. Corequisite: C&PE 521. LEC

C&PE 524 Chemical Engineering Kinetics and Reactor Design (3). Development and solution of the material and energy balance equations for continuous and batch reactors. These balance equations are applied in (a) the determination of intrinsic kinetics, (b) the design of reactors and (c) the analysis of reactor behavior. Both homogeneous and heterogeneous reaction systems are considered. Prerequisite: C&PE 511, C&PE 512, and a course in differential equations. Corequisite: C&PE 521. LEC

C&PE 527 Reservoir Engineering II (4). Lectures on single phase flow and pressure distribution in reservoirs. Calculations in drawdown, buildup, multiple rate, fractured systems, gas and injection well testing. Material balance calculations for gas, gas-condensate, undersaturated, and saturated reservoirs. Prerequisite: C&PE 517 or consent of instructor, a course in differential equations. LEC

C&PE 528 Well Logging (3). Analysis of well logs to determine properties of reservoir rocks, fluid saturations and lithology, and production logging. Prerequisite: Junior or senior standing in Petroleum Engineering or consent of instructor. LEC

C&PE 613 Chemical Engineering Design I (4). Synthesis, design and economic analysis of petrochemical, and chemical plants. Applications in computer aided engineering applied to these topics. Prerequisite: C&PE 521, C&PE 522, C&PE 523, and C&PE 524. Corequisite: C&PE 615. LEC

C&PE 615 Introduction to Process Dynamics and Control (3). The behavior of chemical processing equipment in the presence of disturbances in operating conditions is analyzed. Control systems are designed based on the criteria of system stability and optional system performance. Prerequisite: C&PE 523 and C&PE 524. LEC

C&PE 616 Chemical Engineering Laboratory I (3). Laboratory study of chemical engineering concepts of thermodynamics, fluid flow, heat transfer, mass transfer, and reaction kinetics. Includes emphasis on technical communication skills. Prerequisite: C&PE 523, C&PE 524, and ENGL 102. LAB

C&PE 617 Drilling and Well Completion (3). Design and analysis of rotary drilling and well completion systems; casing design, cementing, and perforating. Prerequisite: C&PE 527 and C&PE 511 or ME 610. LEC

C&PE 618 Secondary Recovery (4). Study of waterflooding based upon linear displacement theory. Extension to two and three dimensions through correlations and stream tube models. Design of waterfloods including preparation of a reservoir description for waterflood evaluation. Prerequisite: C&PE 527. LEC

C&PE 619 Petroleum Engineering Laboratory I (2). Laboratory study of methods to determine rock and fluid properties related to petroleum engineering including phase behavior, viscosity, permeability, porosity, capillary pressure, and drilling fluid properties. Analysis of experimental uncertainty. Oral and written presentations. Prerequisite: ENGL 102 and C&PE 527. LAB

C&PE 623 Chemical Engineering Design II (2). A continuation of C&PE 613 with emphasis on individual student process design development and analysis. Prerequisite: C&PE 613, C&PE 615. LEC

C&PE 624 Plant and Environmental Safety (3). An introductory course designed to acquaint students to topics including chemical plant and environmental accident analysis; review of hazard evaluation procedures including fault tree, hazard and operability studies and human error analysis; safety equipment design; EPA and TOSCA criteria and ethical considerations. Prerequisite: C&PE 613 and C&PE 615. LEC

C&PE 626 Chemical Engineering Laboratory II (3). Laboratory study of chemical engineering concepts of thermodynamics, fluid flow, heat transfer, mass transfer, reaction kinetics, and process control. Includes emphasis on technical communication skills. Prerequisite: ENGL 102, C&PE 523, C&PE 524, C&PE 615. LAB

C&PE 627 Petroleum Production (3). Design and analysis of natural production and artificial lift systems, including beam pumping, gas lift, and submersible pumps. Vertical and horizontal two phase flow, compression, metering, acidizing, fracturing, and pipe line flow systems. Prerequisite: C&PE 617. LEC

C&PE 628 Petroleum Engineering Design (3). Design problems related to petroleum reservoir development such as selection of optimum well spacing for a specified reservoir, evaluation of a producing property or installation of a waterflood. Designs consider economic, uncertainty analysis, as well as conservation, environmental, and professional ethics factors. Prerequisite: C&PE 522, C&PE 527, and C&PE 618. LEC

C&PE 629 Petroleum Engineering Laboratory II (2). Continuation of C&PE 619 emphasizing surface and subsurface operations such as laboratory experiments related to compressible and incompressible fluid flow through the pipe and measurement of the heat transfer coefficients, properties of drilling fluids and strength of cement. Additional topics include core displacement experiments, vapor-liquid equilibrium and dissolving power of HCl acid, application of statistics to reservoir data, oral and written presentation. Prerequisite: C&PE 619. LAB

C&PE 651 Undergraduate Problems (1-6). Investigation of a particular problem in the field of chemical or petroleum engineering. IND

C&PE 654 Undergraduate Seminar in Chemical and Petroleum Engineering (1). An elective course on current topics relating to chemical and petroleum engineering. In particular, a significant number of sessions will be devoted to topics which involve interactions between technology and society, such as the energy shortage, environmental protection, technology assessment, etc. Students will be required to prepare brief reports and/or make presentations from time to time. Prerequisite: Senior standing in chemical or petroleum engineering or consent of instructor. LEC

C&PE 655 Introduction to Semiconductor Processing (3). An overview of various processes to fabricate semiconductor devices and integrated circuits. Topics covered include crystal growth, oxidation, solid-state diffusion, ion implantation, photolithography, chemical vapor deposition, epitaxial growth, metalization, and plasma etching of thin films. (Same as EECS 670.) Prerequisite: Senior standing in C&PE or EE or consent of instructor. LEC

C&PE 656 Introduction to Biomedical Engineering (3). An interdisciplinary introduction to the field of biomedical engineering. This course covers a breadth of topics including biotransport, biomechanics, biomaterials, tissue engineering, drug delivery, biomedical imaging, computational biology, and biotechnology. Students are exposed to these broad topics, and go further in depth in a topic of their choice with the semester project. Prerequisite: Junior or Senior-level standing in Engineering or consent of instructor. LEC

C&PE 657 Polymer Science and Technology (3). Polymer Science and Technology is a 3-hour introductory course to polymer chemistry, science, technology, and processing. The course targets junior, senior, and graduate chemical engineers and chemistry majors and is intended to provide a background which would allow young professionals to understand polymer chemistry and processes to which they would be exposed to in industry and literature. The course would also assist them in selecting polymers and polymer specifications. Prerequisite: Senior or graduate student standing in chemical or petroleum engineering, or consent of instructor. LEC

C&PE 661 Undergraduate Honors Research (3). This course involves the investigation of a particular problem in the field of chemical or petroleum engineering. C&PE 661 should be taken, rather than C&PE 651, for students seeking Departmental Honors in Chemical Petroleum Engineering. C&PE 661 may also be used by students in the Honors Program to help satisfy the course requirement of this program. The design or research topic is identified jointly by the student and faculty research supervisor. Prerequisite: Completion of C&PE 121, C&PE 211, C&PE 511, C&PE 512, C&PE 522, overall GPA >3.5, and engineering GPA >3.5, or permission of the department. IND

C&PE 701 Methods of Chemical and Petroleum Calculations (3).

C&PE 710 Subsurface Methods in Formation Evaluation (3).

C&PE 715 Topics in Chemical and Petroleum Engineering: ____ (1-4).

C&PE 721 Chemical Engineering Thermodynamics (3).

C&PE 722 Kinetics and Catalysis (3).

C&PE 731 Convective Heat and Momentum Transfer (3).

C&PE 732 Advanced Transport Phenomena II (3).

C&PE 751 Basic Rheology (3).

C&PE 756 Introduction to Biomedical Engineering (3).

C&PE 765 Corrosion Engineering (3).

C&PE 771 Advanced Reservoir Engineering (2-3).

C&PE 778 Applied Optimization Methods (3).

C&PE 790 Introduction to Flow in Porous Media (3).

C&PE 795 Enhanced Petroleum Recovery (3).

C&PE 798 Phase Equilibrium (3).

Civil, Environmental, and Architectural Engineering

Chair: Thomas Mulinazzi
 Learned Hall, 1530 West 15th St., Room 2150
 Lawrence, KS 66045-7609
 (785) 864-3766, www.ceae.ku.edu

Civil, environmental, and architectural engineering offers undergraduate programs in both civil engineering and architectural engineering.

Civil engineering is the oldest engineering program at KU. The first graduating class in 1871 included a civil engineer. Civil engineers design roads, water systems, bridges, dams, and buildings, providing nearly all the infrastructure needed by modern society. Civil engineers were the first engineers to address environmental issues and are the lead engineering discipline in treating water supplies to protect public health. In recognition of the significant issues concerning the environment, the department name was changed to include environmental engineering in 1992.

Architectural engineering combines study in architecture with engineering courses in electrical, mechanical, and structural engineering to prepare students to be involved in building projects of all kinds. Architectural engineering dates to 1913 at KU. Students in civil, environmental, and architectural engineering may pursue undergraduate degrees in civil engineering or architectural engineering. Each program is fully ABET-accredited. The B.S. in civil engineering is a four-year, 132-hour degree. The B.S. in architectural engineering is a five-year, 164-hour program. Students in civil engineering can identify civil or environmental engineering as a concentration. Students in architectural engineering can specialize in one of four concentrations.

Mission

CEAE's mission is to provide students with an outstanding engineering education and be a leader in research and service. This mission is supported by the following three goals:

1. Prepare students for productive engineering careers.
2. Maintain and grow strong research programs.
3. Serve the profession.

Architectural Engineering Program

The B.S. in Architectural Engineering is an ABET (Engineering) accredited program offered jointly by the Schools of Architecture and Urban Design and of Engineering. Applications for admission to the undergraduate program are handled by the School of Architecture and Urban Design. Students must fulfill the graduation requirements of the School of Engineering.

Students learn to analyze and design the engineered systems of buildings. They may choose a concentration in (1) structural design and analysis, (2) illumination and power systems, (3) building mechanical systems and acoustics, or (4) construction management. To use this knowledge, the graduate must have a good foundation in engineering science and design as they relate to building systems as well as an appreciation for architectural design.

Educational Objective. The objective of the program is to prepare students for professional engineering practice or graduate study in the analysis, design, construction, and operation of building systems.

First- and Second-year Preparation. The following are recommended enrollments:

First semester (17 hrs.): ARCE 103, ARCH 113, MATH 121, ENGL 101, humanities or social science elective.
 Second semester (18 hrs.): ARCH 114, ENGL 102, MATH 122, PHSX 211.
 Third semester (18 hrs.): ARCH 200, EECS 138, MATH 220, MATH 290, PHSX 212.
 Fourth semester (17 hrs.): ARCH 201, ARCE 217, CE 301, MATH 526.

Requirements for the Bachelor of Science Degree in Architectural Engineering. A total of 164 hours is required for the degree. Substitutions may be made only by submitting a petition to the academic adviser for the school's consideration. The design experience is developed throughout all five years of the undergraduate curriculum, beginning with the introductory course and continuing with required architectural, structural, illumination, power, HVAC, and construction management courses. Each student also takes elective design courses in the selected concentration. In the fifth year, two capstone design courses are required. These integrate the overall design experience for the student. In the first course, the student designs the structural, mechanical, illumination, and power distribution systems for a building. In the second, the student focuses on design projects in the declared concentration.

Mathematics (18 hours)

MATH 121 and MATH 122 Calculus I and II	10
MATH 220 Applied Differential Equations	3
MATH 290 Elementary Linear Algebra	2
CE 625 Applications of Statistics in Civil Engineering	3

Basic Sciences (16 hours)

PHSX 211 and PHSX 212 General Physics I and II	8
CHEM 184 Foundations of Chemistry I	5
Basic science elective	3

English (6 hours)

ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3

Humanities/Social Science (15 hours)

ARCH 640 History of Architecture I: Ancient and Medieval	3
ARCH 641 History of Architecture II: Renaissance to Age of Reason	3
ARCH 642 History of Architecture III: Modern	3
Humanities elective	3
Social science elective	3

Engineering Science (37 hours)

ARCE 217 Computer-assisted Building Design	3
CE 301 Statics and Dynamics	5
CE 310 Strength of Materials	4
ME 312 Basic Engineering Thermodynamics	3
CE 461 Structural Analysis	4
EECS 315 Electric Circuits and Machines	3
ARCE 350 Building Materials Science	3
CMGT 357 Engineering Economics	3
ME 510 Fluid Mechanics	3
ARCE 660 Building Thermal Science	3
Engineering science elective	3

Engineering Design (39 hours)

ARCE 103 Introduction to Architectural Engineering	3
CMGT 400 Construction Administration	3
ARCE 642 Illumination Engineering	3
ARCE 645 Power System Engineering	3
ARCE 661 HVAC&R Systems Design	3
ARCE 680 Architectural Engineering Design I	6
ARCE 681 Architectural Engineering Design II	6
CE 562 and CE 563 Structural Design I and II	6
Engineering design electives	6

Architectural Design (27 hours)

ARCH 113 Architectural Graphics I	3
ARCH 114 Basic Design and Architectural Graphics II	6
ARCH 200 Architectural Design I	6
ARCH 201 Architectural Design II	6
ARCH 626 Building Technology I	3
ARCH 627 Building Technology II	3

Professional and Computer Skills (6 hours)

EECS 138 Introduction to Computing: C++	3
Professional skills elective	3

Credit for ROTC Courses. Three credit hours may be used as professional skills electives.

A KU engineering study on potential highway damage caused by the "super tires" preferred by some truckers resulted in the tires' being banned in the state, saving \$30 million in highway repairs.

Most department offices have current listings of all courses required for their majors.

Credit for Foreign Language. A maximum of 6 credit hours of foreign language:

1. Humanities elective (3 hours).
2. Professional skills elective (3 hours).

At KU, architectural engineering students are enrolled in both the School of Engineering and the School of Architecture and Urban Design. Students in good standing who want a professional Master of Architecture degree in addition to the B.S. in architectural engineering should notify the School of Architecture and Urban Design of their intention to pursue both degrees before the third year.

Professional Opportunities. Architectural engineering focuses on building systems, which include structural systems; i.e., design of the building exterior, design of heating, ventilation, and air conditioning, lighting and electrical systems design and construction methods applied to buildings. Architectural engineers center their attention on the safety, cost and construction methods of these structural systems. They typically work for engineering consulting firms, construction or environmental companies, design, or government agencies.

Civil Engineering Program

Civil engineering, the oldest and broadest of the divisions of engineering, implements a range of public and private projects for improving society's physical infrastructure and the environment. The civil engineer integrates scientific principles with engineering experience to plan, design, and construct networks of highways and railroads, airports, bridges and dams, environmental pollution control systems, industrial structures, water purification and distribution systems, and urban transportation systems that maintain, protect, and enhance the quality of life. Civil engineers are trained to consider the social effects as well as the physical and environmental factors that constrain the planning, design, construction, and operation of their projects. Environmental engineering, a technical specialization with its origins in civil engineering, is a growing discipline dedicated to the protection of the environment.

The undergraduate program gives students the theoretical background, instruction in engineering application of scientific principles, and professional attitude to serve the public. It typically leads to entry-level positions or to graduate work in technical specialties (e.g., environmental, geotechnical, structural, and transportation), business administration, or other professions.

Courses that address the behavior and design of steel and reinforced concrete structures, environmental pollution, control systems, water resources systems, foundations, and surface transportation systems are integrated into the curriculum, culminating in a series of senior-level professional design courses. These simulate the design processes used in the major areas of civil engineering and prepare students for entry-level positions. Most faculty members are licensed professional engineers. KU graduates have successful records in professional practice, research in academic institutions, government and private laboratories, and in managing firms and corporations of all sizes.

Educational Objective. The objective of the program is to prepare students for professional engineering practice or graduate studies in the analysis, design, construction, and operation of public and private infrastructure systems.

First- and Second-year Preparation. The following are recommended enrollments:

First semester (16 hrs.): MATH 121, ENGL 101, CHEM 184, CE 240.

Second semester (17 hrs.): MATH 122, ENGL 102, CHEM 188, PHSX 211.

Third semester (18 hrs.): MATH 220, MATH 290, PHSX 212, COMS 130, a course in the humanities or social sciences, a basic science elective.

Fourth semester (18 hrs.): CE 301; ECON 104, ECON 142, or ECON 144; CE 390; CE 625; a technical elective.

Requirements for the Bachelor of Science Degree in Civil Engineering. Students take required courses and select electives that best fulfill their personal goals from the following general areas of study. A total of 132 credit hours is required for graduation.

Mathematics (18 hours)

MATH 121 and MATH 122 Calculus I and II	10
MATH 220 Applied Differential Equations	3
MATH 290 Elementary Linear Algebra	2
CE 625 Applications of Statistics in Civil Engineering	3

Basic Sciences (21 hours)

PHSX 211 and PHSX 212 General Physics I and II	8
CHEM 184 and CHEM 188 Foundations of Chemistry I and II ..	10
An additional 3 hours in basic sciences courses such as biology or geology	3

General Education Component (21-22 hours)

ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
COMS 130 Speaker-Audience Communication	3
ECON 104 Introductory Economics (4) or	
ECON 142 Principles of Microeconomics (3) or	
ECON 144 Principles of Macroeconomics (3)	3-4
Humanities	3
Social sciences	3
An additional 3 hours in humanities or social sciences	3

Basic Engineering Sciences (28 hours)

CE 201 Statics (2) and CE 300 Dynamics (3) or	
CE 301 Statics and Dynamics (5)	5
CE 310 Strength of Materials	4
CE 330 Fluid Mechanics	4
CMGT 357 Engineering Economics	3
CE 390 Civil Engineering Graphics	3
EECS 138 Introduction to Computing (3) or	
C&PE 121 Introduction to Computers in Engineering (3) ...	3
Two of the following courses:	6
ME 312 Basic Engineering Thermodynamics (3) or	
C&PE 512 Process Engineering Thermodynamics (3)	
ME 306 Science of Materials (3) or	
ARCE 350 Building Materials Science (3) or	
EECS 315 Electric Circuits and Machines (3)	

Civil and Environmental Engineering Sciences and Introduction to Design (20 hours)

CE 240 Surveying	3
CE 455 Hydrology	3
CE 461 Structural Analysis	4
CE 477 Introduction to Environmental Engineering and Science ..	4
CE 487 Soil Mechanics	4
CE 412 Structural Engineering Materials (3) or	
CE 484/CE 684 Material for Transportation Facilities (3) ...	3

Engineering Analysis and Design

General Civil Engineering Concentration (19 hours)

CMGT 400 Construction Administration	3
CE 552 Water Resources Engineering Design (4) or CE 576	
Municipal Water Supply and Wastewater Treatment (4)	4
CE 562 and CE 563 Structural Design I and II	6
*CE 580 Transportation Planning and Management (3) or	
CE 582 Highway Engineering (3)	3
*CE 588 Foundation Engineering	3

*Courses required in at least two of these areas.

Environmental Engineering Concentration (20 hours)

CE 552 Water Resources Engineering Design	4
CE 576 Municipal Water Supply and Wastewater Treatment	4
CE 562 Structural Design I (3) or CE 563 Structural Design II (3) ..	3
Civil engineering design elective	3
(CMGT 400, CE 580, CE 582, or CE 588)	
Environmental engineering principles elective	3
(CE 570 and CE 571 or CE 573)	
Environmental design elective	3
(CE 574, CE 755, CE 757, or CE 791)	

Electives in Selected Areas of Emphasis (0-9 hours). To bring the total number of hours to 132, students may take the following courses, additional courses in the areas above; up to 3 additional hours of ROTC courses related to physical sciences, engineering, social sci-

ences, or humanities in excess of the 21 hours required (for those completing the ROTC program); or appropriate technical courses.

CE 191 Introduction to Civil Engineering (2)
ENGL 362 Foundations of Technical Writing (3)

Professional Practice (3 hours)

CE 499 Seminar 3

Undergraduate Concentrations. Students may identify broad concentrations in either civil engineering or environmental engineering. Within these, students may choose elective courses to permit additional exposure to selected areas of civil or environmental engineering such as transportation, structural, geotechnical, environmental, and water resources engineering. In environmental engineering, electives may be selected to focus on water quality and treatment, bioremediation, solid and hazardous wastes, air quality, and air pollution control.

Credit for ROTC Courses. A maximum of 6 credit hours of ROTC may be used:

1. Three hours of ROTC may be substituted for COMS 130.
2. If the ROTC course is related to the physical sciences or engineering, 3 credit hours may be used as electives in engineering technology and design.

Credit for Foreign Language

1. In civil engineering, up to 15 hours of foreign language with proper planning (usually 6 hours).
2. In the environmental concentration, up to 11 hours of foreign language with proper planning (usually 6 hours).

Combined Civil Engineering and Business. A student who wants to combine business with engineering may enroll in a program leading to a B.S. degree in both fields. Full-time enrollment enables the student to earn the two degrees in five years. During the first two years, the student enrolls in the School of Engineering. After that, the student enrolls simultaneously in the Schools of Business and of Engineering. A list of required courses may be obtained from the CEAE department.

Professional Opportunities. Civil engineers plan, design, construct, and oversee public and private infrastructure systems as well as maintain essential structures such as bridges, buildings, tunnels, roads, and water supply and sewage systems. Civil engineers typically work for major industrial and commercial centers, construction industry, state departments of transportation, manufacturing companies, oil or electrical companies, aerospace industries, or consulting firms.

Professional Registration and Licensing

Engineers are involved in projects that directly affect the health and safety of the public. Graduates are strongly encouraged to become registered Professional Engineers. This involves completing a B.S. degree in civil or architectural engineering, completing the Fundamentals of Engineering and Professional Engineering examinations, and obtaining four years of satisfactory engineering experience. Students in both civil and architectural engineering must take the FE examination before graduation. Some architectural engineers also practice as architects after completing an accredited professional undergraduate or graduate architecture degree program and becoming Registered Architects.

● **Architectural Engineering Courses**

ARCE 103 Introduction to Architectural Engineering (3). An introduction to the study and practice of architectural engineering. Topics covered include the building process; design document preparation; library and Internet research; engineering practice issues such as licensing, ethics, and team work; and oral, written, and graphic presentation skills. This course is built around design projects assigned throughout the semester. Prerequisite: Admission to the Architectural Engineering program or consent of instructor. LEC

ARCE 217 Computer-assisted Building Design (3). Introduction to computers as design tools in architectural engineering. The course covers computer aided design, surface modeling, solid modeling, rendering techniques, Internet tools, and basic customization of CAD software. Prerequisite: ARCH 113, EECS 138, and MATH 122. LEC

ARCE 350 Building Materials Science (3). An introduction to the structural, thermal, electrical, and optical properties of building materials. Manufacturing, testing, integration, and specification of materials with emphasis on commercial, institutional, and industrial buildings. Prerequisite: PHSX 212 and CHEM 184, or consent of instructor. LEC

ARCE 390 Special Problems (1-3). Special problems in architectural engineering. The study of a particular problem involving individual research and report. Prerequisite: Students must submit, in writing, a proposal including a statement of the problem the student wishes to pursue, the methodology the student plans to use in the program, and objectives of the special problems. The student must also have a signed agreement with the faculty member proposed as instructor for the course. Consent of the instructor. IND

ARCE 561 Building Mechanical Systems for Architects (3). A study of the indoor thermal environment, water supply, sanitary sewage disposal, storm drainage, and codes for building mechanical systems. This course is not open to students in the School of Engineering. Prerequisite: ARCH 626 and PHSX 114. LEC

ARCE 642 Illumination Engineering (3). Students are introduced to lighting fundamentals and technology and to their application in analysis and design of architectural lighting systems. The course develops methodology for solving a variety of problems in both interior and exterior light. Prerequisite: PHSX 212, junior standing or consent of instructor. LEC

ARCE 645 Power System Engineering (3). This course introduces the design of commercial and industrial power systems. Emphasis is placed on the proper selection, specification, and installation of materials and equipment that comprise commercial and industrial power systems. This course covers the application of materials and equipment in accordance with industry standards, independent laboratory testing, and the National Electrical Code. Prerequisite: EECS 211 or consent of instructor. LEC

ARCE 660 Building Thermal Science (3). The fundamentals of moist air processes, air and moisture exchange, and building heat transfer. Determination of heating and cooling loads under steady-state and transient conditions. Prerequisite: ARCE 217, ME 312, and ME 510, or consent of instructor. LEC

ARCE 661 HVAC&R Systems Design (3). Analysis and design of heating, ventilating, air-conditioning, and refrigeration equipment and systems. Prerequisite: ARCE 660 or consent of the instructor. LEC

ARCE 663 Energy Management (3). Energy usage in commercial buildings and industry, energy auditing methodology, utility analysis, management measures, and economic evaluation are covered. Includes fieldwork. Prerequisite: ARCE 357, ARCE 642, ARCE 645, and ARCE 660, or ARCE 540 and ARCE 561, or consent of instructor. LEC

ARCE 664 Fire Protection Engineering (3). An introduction to human response, fire science, combustion calculations, compartment fires, piping and sprinkler design, and smoke management. Analytical methods, experimental data, codes, case-studies, and videos are presented in this engineering design course. Prerequisite: ME 312 or C&PE 221 and ME 510, CE 330, or C&PE 511, or consent of instructor. LEC

ARCE 665 Solar Energy Systems Design (3). A quantitative and qualitative study of active, passive, wind, and photovoltaic energy conversion systems for buildings. Solar radiation and system performance prediction. Prerequisite: ME 312, C&PE 221, or ARCE 561, or consent of instructor. LEC

ARCE 675 Sound and Vibration Control (3). An introduction to the physics and measurement of sound, wave phenomena, acoustics, and methods of noise and excessive vibration control for various applications. Prerequisite: PHSX 115 or PHSX 212, or consent of instructor. LEC

ARCE 680 Architectural Engineering Design I (6). Capstone engineering design course that includes the analysis, design, and integration of structural, mechanical, electrical, and lighting systems for a commercial, industrial, or institutional building. Prerequisite: ARCE 450, ARCE 642, ARCE 645, ARCE 661, CE 562, and CE 563, or consent of instructor. Fifth year senior standing in architectural engineering. LAB

ARCE 681 Architectural Engineering Design II (6). Comprehensive architectural engineering design project in a specific area of professional practice. Prerequisite: ARCE 680 or consent of instructor. Fifth year senior standing in architectural engineering. LAB

ARCE 690 Special Problems (1-3). The study of a particular problem in architectural engineering involving individual research and presentation. Prerequisite: Student must submit, in writing, a proposal including a statement of the problem the student wishes to pursue, the methodology the student plans to use in the program, and objectives of the special problems. The student must also have a signed agreement with the faculty member proposed as instructor for the course. Consent of instructor. IND

ARCE 691 Honors Research (3). Research a particular architectural engineering problem. Research will involve defining the problem, developing a research methodology, applying the research methodology and gathering data, analyzing and interpreting the data, and presenting the results of the research. The student must have a faculty sponsor and submit a proposal in writing stating the objective of the research, the planned research method that will be used, and the method of reporting the results. Prerequisite: Participation in the University Honors Program, consent of instructor, and approval of the chair are required. LEC

Students come to KU from every state in the union and nearly 100 countries abroad.

Students in engineering launch an entry or two each year in the concrete canoe race traditionally held in Manhattan, Kansas.

A Directory of Courses appears on pages 5-6 as a guide to finding course descriptions.

- ARCE 700 Directed Readings in Architectural Engineering** (1-3).
ARCE 760 Automatic Controls for Building Mechanical Systems (3).
ARCE 764 Advanced Thermal Analysis of Buildings (3).

● Civil and Environmental Engineering Courses

- CE 191 Introduction to Civil Engineering** (2). A discussion of engineering logic through examination of current concepts in engineering education, practice and professional development. Not open to juniors and seniors. LEC
- CE 201 Statics** (2). The principles of statics, with particular attention to engineering applications. Prerequisite: PHSX 211 and MATH 122. LEC
- CE 240 Surveying** (3). Two lecture periods and one field period. A course for all students in the use of surveying instruments. Includes field and office problems involving land measurements, construction layouts, stadia methods, areas, and U.S. Public Land Surveys. Prerequisite: MATH 121 or concurrent enrollment or consent of instructor. LEC
- CE 300 Dynamics** (3). The principles of kinematics and kinetics, with particular attention to engineering applications. Prerequisite: CE 201 and MATH 122. LEC
- CE 301 Statics and Dynamics** (5). A combination of statics and dynamics covered in CE 201 and CE 300. This course must be taken as a five-hour unit. Prerequisite: PHSX 211 and MATH 122. LEC
- CE 310 Strength of Materials** (4). Three one-hour lectures and one two-hour laboratory. Principles of stress and deformation in structures and machines. Prerequisite: CE 201, MATH 220 and MATH 290 or consent of instructor. LEC
- CE 311 Strength of Materials** (3). A course that includes a basic treatment of stress and deformation in elastic bodies. Prerequisite: CE 201, MATH 220 and MATH 290 or consent of instructor. LEC
- CE 330 Fluid Mechanics** (4). Three one-hour lectures and one two-hour laboratory. A study of the basic principles of the mechanics of fluids and their application. The lecture material will be supplemented by demonstrations, experiments, and individual projects. Prerequisite: ENGL 101, ENGL 102, CE 300 or CE 301. LEC
- CE 390 Civil Engineering Graphics** (3). Principles of graphic communications required for the practice of Civil Engineering are presented. Sketching, CADD, basic geometric relationships, and data presentation are studied. Introduction to the use of computer based CADD systems is presented. LEC
- CE 412 Structural Engineering Materials** (3). Study of the engineering properties of structural materials and their control with emphasis on timber, concrete, and steel. Two one-hour lectures and one three-hour laboratory. Prerequisite: CE 310 or CE 311 or consent of instructor. LEC
- CE 455 Hydrology** (3). An introduction to the fundamentals of hydrologic analysis. Subjects covered include collection and initial reduction of hydrologic data; rainfall-runoff relationships, hydrograph development; hydrologic routing, well equations and their application and hydrologic frequency analysis. Prerequisite: ENGL 101, ENGL 102, CE 330 (or concurrent), and junior standing. LEC
- CE 461 Structural Analysis** (4). Three one-hour lectures and one two-hour laboratory. Analysis of statically determinate and indeterminate beams, frames, and trusses using classical methods and introducing computer-based methods. Prerequisite: CE 310. Corequisite: EECS 138 or C&PE 121 or equivalent. LEC
- CE 477 Introduction to Environmental Engineering and Science** (3). Application of fundamental scientific principles to the protection of atmospheric, aquatic, and terrestrial environments through the use of pollution abatement processes, with consideration also given to economic, social, political, and legal aspects of pollution control. Prerequisite: ENGL 102, MATH 101 or MATH 104, and CHEM 125 or CHEM 184. LEC
- CE 480 Transportation Engineering Fundamentals** (2). An introductory study of basic planning and operating principles of various modes of transportation. Several transportation planning tools such as systems approach and economic analysis are also discussed. Prerequisite: CE 455 and ECON 104 or ECON 140. LEC
- CE 484 Material for Transportation Facilities** (3). Principles involved in the testing, behavior, and selection of materials for use in the transportation field. Emphasis is on bituminous materials, aggregate, and soil stabilization. Prerequisite: CE 310. LEC
- CE 487 Soil Mechanics** (4). Three lecture periods and one laboratory period. Fundamental theories of soil mechanics and their applications in engineering. Prerequisite: CE 310 and CE 330. LEC
- CE 490 Special Problems** (1-5). An advanced study related to a special problem in the field of civil engineering or allied fields, for upper-division undergraduate students. IND
- CE 495 Special Topics:** _____ (1-3). A course or colloquium to present topics of special interest. Prerequisite: Varies by topic. LEC
- CE 498 Engineering Honors Seminar** (3). Prerequisite: Participation in or eligibility for the University Honors Program. Sophomore or higher standing. LEC
- CE 499 Seminar** (1). Concepts of professional development. LEC

- CE 552 Water Resources Engineering Design** (4). Three one-hour lectures and one three-hour laboratory. Study of water resources structures and systems with design emphasis on the hydraulic features: dams, drainage, river engineering, pipelines, channels and hydraulic machinery. Prerequisite: CE 330 and CE 455. LEC
- CE 562 Structural Design I** (3). Two one-hour lectures and one three-hour laboratory. Fundamentals of structural design with steel. Prerequisite: CE 461. LEC
- CE 563 Structural Design II** (3). Two one-hour lectures and one three-hour laboratory. Fundamentals of structural design with non-metallic materials (concrete, timber). Prerequisite: CE 461; CE 412 or CE 484 (or concurrent). LEC
- CE 570 Concepts of Environmental Chemistry** (2). The fundamentals of aquatic chemistry, with emphasis on application to water purification and wastewater treatment. Prerequisite: Undergraduate standing, CE 477, and MATH 115 or MATH 121. LEC
- CE 571 Environmental Chemical Analysis** (1). A laboratory introducing the basic chemical tests used in the water and wastewater fields of environmental engineering and science. Prerequisite: Undergraduate standing, and credit or co-enrollment in CE 570. LAB
- CE 573 Biological Principles of Environmental Engineering** (3). A basic study of the microorganisms of importance in environmental engineering. Emphasis is placed on the microbiology of dilute nutrient solutions. Microbial physiology, microbial ecology, and biochemistry will be discussed as they pertain to environmental engineering and science. Both biodegradation and public health aspects are included. (Two lecture hours and one three-hour laboratory per week) Prerequisite: Undergraduate standing, CE 477 or equivalent, and MATH 115 or MATH 121. LEC
- CE 574 Design of Air Pollution Control Systems** (3). This course emphasizes understanding of air pollution problems and their solution through engineering design and science. Topics covered include: types of air pollutants; monitoring of air pollutants; transport of air pollutants in the atmosphere; and control of air pollution emissions from both stationary and mobile sources. Prerequisite: CE 330, CE 477, MATH 122, PHSX 212; or consent of instructor. LEC
- CE 576 Municipal Water Supply and Wastewater Treatment** (4). The principles of public water supply design, including source selection, collection, purification, and distribution; for municipal wastewater, collection, treatment, and disposal. Prerequisite: CE 330, CE 455, and CE 477. LEC
- CE 577 Industrial Water and Wastes** (3). A review of the methods of industrial water treatment and the fundamentals of industrial water pollution control. Topics include: water budgets, cooling tower and boiler treatment, corrosion control, government regulations, wastewater characterization, waste minimization, pilot plants, pre-treatment, final treatment, and site selection. Prerequisite: Undergraduate standing, and CE 477 or equivalent. LEC
- CE 580 Transportation Planning and Management** (3). The course covers the major technical aspects of traditional planning methodologies, computer applications in transportation and the impact of technology on the management and planning processes. Topics discussed will include origin-destination surveys, demand analysis models, supply analysis, traffic impact studies, computer simulation and modeling, economics, management systems, intelligent transportation systems (ITS), and geographic information systems (GIS). Prerequisite: CE 390 and senior standing. LEC
- CE 582 Highway Engineering** (3). A comprehensive study of the planning, design, construction, operations, and maintenance of highway systems with emphasis on the design aspects of a highway. Prerequisite: CE 240, CE 455, and CE 487. LEC
- CE 588 Foundation Engineering** (3). A study of the interaction of the characteristics of soil or rocks and structures. The estimation of settlement and bearing capacity of foundation elements. Principles governing the choice and design of footings, rafts, piers, and piles. Prerequisite: CE 487. LEC
- CE 625 Applied Probability and Statistics** (3). Course topics include data description, measures of central tendency and dispersion, sampling and sampling designs, quality control, persistence, periodicity, sampling distributions, hypothesis testing, ANOVA, correlation, linear regression, multiple correlation, and multiple regression. Applications and real world problems are stressed. Prerequisite: MATH 121 or MATH 115 and MATH 116. LEC
- CE 684 Materials for Transportation Facilities** (3). Principles involved in the testing, behavior, and selection of materials for use in the transportation field. Emphasis is on bituminous materials, aggregate, and soil stabilization. Readings. Prerequisite: CE 310 and CE 487. LEC
- CE 704 Dynamics and Vibrations** (3).
- CE 710 Structural Mechanics** (3).
- CE 721 Experimental Stress Analysis** (3).
- CE 725 Multivariate Statistical Methods** (3).
- CE 730 Intermediate Fluid Mechanics** (3).
- CE 746 Pavement Construction** (3).
- CE 748 Asphalt Technology** (3).
- CE 751 Watershed Hydrology** (3).

- CE 753 Chemical Hydrogeology (3).
 CE 754 Physical Hydrogeology (3).
 CE 755 Free Surface Flow I (3).
 CE 756 Wetlands Hydrology and Introduction to Management (3).
 CE 757 Pipe-flow Systems (3).
 CE 758 Water Resource Policy and Planning (3).
 CE 759 Water Quality Modeling (3).
 CE 761 Matrix Analysis of Framed Structures (3).
 CE 762 Behavior of Reinforced Concrete Members (3).
 CE 763 Advanced Concrete Design I (3).
 CE 764 Advanced Concrete Design II (3).
 CE 765 Advanced Steel Design I (3).
 CE 766 Advanced Steel Design II (3).
 CE 767 Introduction to Fracture Mechanics (3).
 CE 770 Concepts of Environmental Chemistry (2).
 CE 771 Environmental Chemical Analysis (1).
 CE 772 Physical Principles of Environmental Engineering Processes (3).
 CE 773 Biological Principles of Environmental Engineering (3).
 CE 774 Chemical Principles of Environmental Engineering Processes (3).
 CE 775 Marine Pollution (3).
 CE 776 Contaminant Transport (3).
 CE 777 Industrial Water and Wastes (3).
 CE 778 Air Quality (3).
 CE 779 Water Quality (3).
 CE 781 Traffic Engineering I: (Traffic Characteristics and Studies) (3).
 CE 785 Terrain Analysis (3).
 CE 787 Advanced Soil Mechanics (3).
 CE 788 Geotechnical Engineering Testing (3).
 CE 789 Pavement Management Systems (3).
 CE 791 Waste Facility Siting and Design (3).
 CE 792 Knowledge Based/Expert Systems in Engineering (3).
 CE 793 Advanced Concepts in CADD (3).
 CE 794 Environmental Graduate Student Orientation (1).
 CE 795 Scanning Electron Microscopy and X-ray Microanalysis (3).

● Construction Management Courses

- CMGT 357 Engineering Economics (3). Analysis of design alternatives and investment opportunities based on the time value of money. Topics include financial statements and accounting concepts related to economic analysis, time value of money and cash flow equivalence, cost of capital and minimum attractive rate of return (MARR), defining mutually exclusive alternatives, developing alternative after-tax cash flows, performing investment and replacement studies, and methods for addressing uncertainty and risk. Prerequisite: Junior and senior standing in the School of Engineering or the School of Architecture and Urban Design. LEC
- CMGT 400 Construction Administration (3). An introduction to the construction industry and construction administration. Topics include project participant roles and responsibilities; project delivery systems; procurement of construction services; contracts, bonds, and insurance; estimating and bidding; planning and scheduling; operations management; safety; and project commissioning and close-out. Prerequisite: Junior or Senior standing in the School of Engineering or the School of Architecture and Urban Design. LEC
- CMGT 410 Construction Costs and Methods (3). A study of construction methods, materials, equipment, production, overhead, and cost estimates. Emphasis is on heavy engineered construction. Prerequisite: Junior standing in Architectural Engineering or Civil Engineering. LEC
- CMGT 609 International Construction Management (3). An introduction to the management of international construction projects. This course focuses on areas where international construction project management differs from the management of domestic construction projects. Topics include project delivery systems including build-operate-transfer (BOT) and other systems unique to international construction contracts; the impact of the host country's language, demographics, laws, political structure, geography, economics, culture, and customs on project delivery; currency transfer and risk; procurement and expediting; designing construction means and methods that optimize available labor, material, and equipment; participant roles and responsibilities; among other topics. Prerequisite: CMGT 400 or consent of instructor. LEC
- CMGT 700 Construction Project Management (3).
 CMGT 701 Construction Planning and Scheduling (3).
 CMGT 702 Construction Equipment and Methods (3).
 CMGT 703 Construction Quality, Productivity, and Safety (3).
 CMGT 704 Construction Estimating and Bidding (3).
 CMGT 705 Construction Contracts, Bonds, and Insurance (3).
 CMGT 790 Construction Seminar: _____ (3).

The 2006 Fiske Guide to Colleges calls KU's School of Engineering a standout.

The Kyou portal gives Lawrence and Edwards Campus students access to many online services and resources. Visit <https://students.ku.edu>.

A Placement Table for Initial Enrollment in Mathematics appears on page 59.

Electrical Engineering and Computer Science

Chair: Costas Tsatsoulis
 Eaton Hall, 1520 West 15th St., Room 2001
 Lawrence, KS 66045-7621
 (785) 864-4620, fax: (785) 864-3226, www.eecs.ku.edu

The technological advances that have made our society what it is today are due largely to the efforts of electrical engineers, computer engineers, and computer scientists. Among these advances are radio, television, telephones, wireless communications, personal computers, workstations, mainframe computers, aircraft avionics, satellite electronics, automobile electronics, office machinery, medical electronic equipment, video games, electric power generation and distribution systems, telecommunications, computer networks (including the Internet), home entertainment products, radar, defense electronics, artificial intelligence, and a wide variety of computer software.

The department offers three Bachelor of Science degrees: Electrical Engineering (B.S.E.E.), Computer Engineering (B.S.Co.E.), and Computer Science (B.S.C.S.). Each features a firm grounding in mathematics, basic science, computer and engineering science, and advanced studies in the theory and design of various systems as well as hands-on experience. All degree programs are accredited.

Vision and Mission

The vision of the EECS department is to provide a stimulating and challenging intellectual environment:

- To have classes populated by outstanding students.
- To be world class in an increasing number of selected areas of research.
- To have faculty members with high visibility among their peers.

The mission of the EECS department is

- To educate the next generation of electrical engineers, computer engineers, and computer scientists.
- To discover, apply, and disseminate knowledge.
- To be an asset to the community and to society.

Departmental Honors Program

A student may graduate with departmental honors in electrical engineering, computer engineering, or computer science by graduating with a minimum grade-point average requirement while maintaining full time status. Students must enroll in EECS 498 Honors Research for their last two semesters and must complete an independent research project paper and oral presentation to a panel of three judges.

Electrical Engineering Program

Electrical engineers work with a broad range of electrical and electronic devices and systems. While computers are involved in many of these areas, either as components or as design/analysis tools, an electrical engineer's work often extends beyond the computing aspects of a problem or system.

Educational Objectives. As electrical engineers, B.S.E.E. graduates of KU

1. Will have demonstrated success in the practice of electrical engineering based on the ability to use fundamental scientific and engineering principles, use modern laboratory and computing tools, and design electrical components and complex systems.
2. Will have demonstrated team skills to function in multidisciplinary environments, make technical contributions to and/or provide technical leadership in a diverse and changing global society, and use ethical and professional principles in all career decisions.

First- and Second-year Preparation. The following are recommended enrollments for the first two years:

First semester (15 hrs.): MATH 121, ENGL 101, EECS 140, humanities/social sciences elective.
 Second semester (16 hrs.): MATH 122, ENGL 102, PHSX 211, EECS 168.
 Third semester (16 hrs.): EECS 211, MATH 220, MATH 290, CHEM 184, humanities/social science elective.
 Fourth semester (15 hrs.): EECS 212, EECS 220, EECS 388, humanities/social sciences elective.

Requirements for the Bachelor of Science Degree in Electrical Engineering. A total of 128 credit hours is required for the B.S.E.E. degree, as follows:

Electrical Engineering (63 hours)	
EECS 211 and EECS 212 Circuits I and II	7
EECS 140 Introduction to Digital Logic Design	4
EECS 168 Programming I	4
EECS 312 Electronic Circuits I	3
EECS 360 Signal and System Analysis	4
EECS 388 Computer Systems and Assembly Language	4
EECS 412 Electronic Circuits II	4
EECS 420 Electromagnetics II	4
EECS 443 Digital Systems Design	4
EECS 444 Control Systems	3
EECS 470 Electronic Devices and Properties of Materials	3
EECS 501 and EECS 502 Senior Design Laboratory I and II	6
EECS 562 Introduction to Communication Systems	4
Senior electives	9
(Any EECS course numbered 400 or above, except EECS 603. Under unusual circumstances other courses can be considered but only with an accompanying petition.)	
Requirements for EECS Honors (2 hours)	
EECS 498 Honors Research	2
(Refer to the EECS Undergraduate Handbook for full requirements for graduation with departmental honors.)	
Mathematics (18 hours)	
MATH 121 and MATH 122 Calculus I and II	10
MATH 220 Applied Differential Equations	3
MATH 290 Elementary Linear Algebra	2
EECS 461 Probability and Statistics	3
Basic Science (17 hours)	
CHEM 184 Foundations of Chemistry I	5
PHSX 211 General Physics I	4
EECS 220 Electromagnetics I	4
PHSX 313 General Physics III	3
PHSX 316 General Physics III Lab	1
General Electives (6 hours)	
Two courses from the following list of approved technical, scientific, and professional courses:	
• <i>EECS:</i> Any course except EECS 100, EECS 128, EECS 138, EECS 498, EECS 603.	
• <i>Engineering:</i> Any course from any engineering department numbered 200 or above, except ENGR 300, ENGR 504, ME 328, and CE 390	
• <i>Natural Science:</i> Any course designated NB, NE, or NP by the College of Liberal Arts and Sciences, except PHSX 111, PHSX 112, PHSX 114, PHSX 115, PHSX 212, CHEM 125 (if CHEM 184 or the equivalent was taken to meet Basic Science requirements). If a science course used for the science elective exceeds the required science elective hours, the excess hours will be considered general elective hours.	
• <i>Mathematics:</i> Any MATH course numbered 500 or above, except MATH 701.	
• <i>Business:</i> Any course from the School of Business, except statistics and computing.	
English (6 hours)	
ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
Communication (3 hours)	
One of the following courses:	3
ENGL 362 Foundations of Technical Writing (3)	
COMS 130 Speaker-Audience Communication (3)	
General Education Component (15 hours)	
Economics elective	3
ECON 142 Principles of Microeconomics (3) (preferred) or ECON 144 Principles of Macroeconomics (3)	
Political science elective	3
POLS 110 Introduction to U.S. Politics (3) or POLS 150 Introduction to Comparative Politics (3) or POLS 170 Introduction to International Politics (3)	
Ethics elective	3
PHIL 365 Moral Issues in the Professions (3) or PHIL 375 Moral Issues in Computer Technology (3)	
Humanities/social sciences electives	6

(Selected from the list of Principal Courses or Honors Principal Courses in humanities and social sciences. See the College of Liberal Arts and Sciences: General Requirements chapter. Any course designated H or S with a principal course as a prerequisite is also acceptable. Language courses, other than English or the student's native language, may be used for up to 3 hours. Additionally, all western civilization courses (HWC) and non-western culture courses can count as humanities (H) courses.)

Credit for ROTC Courses. Up to 6 hours of ROTC may be petitioned to count toward the general elective requirement.

Credit for Foreign Language. Foreign language courses (other than English or a student's native language) may be used for up to 3 credit hours of humanities/social sciences electives.

Professional Opportunities. Electrical engineers may work in circuit design, electronic devices, electrical and optical communications control and automation, electromagnetics, instrumentation, energy and power, or signal processing. Electrical engineers typically work in telecommunications, consumer electronics, utilities firms, government, and defense or consulting firms.

Computer Engineering Program

Computer engineers focus on all aspects of computational devices and systems, including both hardware and software. Wherever computers are found, computer engineers are needed.

Educational Objectives. As computer engineers, B.S.Co.E. graduates of KU

1. Will have demonstrated success in the practice of computer engineering based on the ability to use fundamental scientific and engineering principles, use modern laboratory and computing tools, and design computer components and complex software systems.
2. Will have demonstrated team skills to function in multidisciplinary environments, make technical contributions to and/or provide technical leadership in a diverse and changing global society, and use ethical and professional principles in all career decisions.

First- and Second-year Preparation. The following are recommended enrollments for the first two years:

First semester (15 hrs.): MATH 121, ENGL 101, EECS 140, humanities/social sciences elective.
 Second semester (16 hrs.): MATH 122, ENGL 102, PHSX 211, EECS 168.
 Third semester (16 hrs.): EECS 210, EECS 211, EECS 268, MATH 220, MATH 290.
 Fourth semester (17 hrs.): EECS 212, EECS 220, EECS 268, COMS 130 or ENGL 362, humanities or social science elective.

Requirements for the Bachelor of Science Degree in Computer Engineering. A total of 130 credit hours is required for the B.S.Co.E. degree, as follows:

Computer Engineering (64 hours)	
EECS 211 and EECS 212 Circuits I and II	7
EECS 140 Introduction to Digital Logic Design	4
EECS 168 and EECS 268 Programming I and II	8
EECS 312 Electronic Circuits I	3
EECS 360 Signal and System Analysis	4
EECS 368 Programming Language Paradigms	3
EECS 388 Computer Systems and Assembly Language	4
EECS 443 Digital Systems Design	4
EECS 448 Software Engineering I	3
EECS 541 Computer Systems Design Laboratory I	3
EECS 542 Computer Systems Design Laboratory II	3
EECS 645 Computer Architecture	3
EECS 663 Introduction to Communication Networks	3
EECS 678 Introduction to Operating Systems	3
Senior electives	9
(Any EECS course numbered 400 or above, except EECS 603. Under unusual circumstances other courses can be considered but only with an accompanying petition.)	
Requirements for EECS Honors (2 hours)	
EECS 498 Honors Research	2
(Refer to the EECS Undergraduate Handbook for full requirements for graduation with departmental honors.)	
Mathematics (22 hours)	
MATH 121 and MATH 122 Calculus I and II	10
MATH 220 Applied Differential Equations	3
MATH 290 Elementary Linear Algebra	2
EECS 210 Discrete Structures	4

EECS 461 Probability and Statistics	3
Basic Science (15 hours)	
PHSX 211 General Physics I	4
EECS 220 Electromagnetics I	4
PHSX 313 General Physics III	3
PHSX 316 General Physics III Lab	1
Natural science elective chosen from the following list:	3
(ASTR 391, BIOL 150, BIOL 152, CHEM 184, CHEM 188, GEOG 104 and GEOG 105, GEOG 304, GEOL 101)	

General Elective (5 hours)
To be taken from the list of approved technical, scientific, and professional courses (same as for electrical engineering) ... 5

English (6 hours—same as for electrical engineering)

Communication (3 hours—same as electrical engineering)

General Education Component (15 hours—same as electrical engineering)

Credit for ROTC Courses. Up to 6 hours of ROTC may be petitioned to count toward the general elective requirement.

Credit for Foreign Language. Foreign language courses (other than English or a student's native language) may be used for up to 3 credit hours of humanities/social sciences electives.

Professional Opportunities. Computer engineers may work in computer elements and architectures, very large-scale integrated circuits for data processing and storage, embedded and real-time computer systems, or computer networking. Computer engineers work in the computer industry, telecommunications, government and defense, software companies or consulting firms.

Computer Science Program

Computer scientists focus on the theory and practice of computing.

Educational Objectives. The program gives graduates the solid preparation necessary for a successful career or entry into a graduate degree program. It provides the student with

1. An understanding of the fundamental concepts in basic sciences and mathematics and how these concepts can be applied to the solution of science and engineering problems.
2. Meaningful studies in the humanities and social sciences, including an appreciation of ethical issues in the use of technology.
3. A solid foundation in oral and written communication.
4. Experience with the design, maintenance and implementation of software systems.
5. An understanding of computer hardware and software architectures and the ability to design software systems that run efficiently on conventional computing systems.

First- and Second-year Preparation. The following are recommended enrollments for the first two years:

First semester (15 hrs.): MATH 121, ENGL 101, EECS 140, humanities/social sciences elective.

Second semester (16 hrs.): MATH 122, ENGL 102, PHSX 211, EECS 168.

Third semester (17 hrs.): EECS 210, EECS 268, PHSX 212, MATH 220 or MATH 223, MATH 290.

Fourth semester (16 hrs.): EECS 368, EECS 388, ENGL 362, humanities/social science elective.

Requirements for the Bachelor of Science Degree in Computer Science. A total of 126 credit hours is required for the B.S.C.S. degree, as follows:

Computer Science (52 hours)	
EECS 140 Introduction to Digital Logic Design	4
EECS 168 and EECS 268 Programming I and II	8
EECS 368 Programming Language Paradigms	3
EECS 388 Computer Systems and Assembly Language	4
EECS 448 Software Engineering I	3
EECS 510 Introduction to the Theory of Computing	3
EECS 560 Data Structures	3
EECS 645 Computer Architecture	3
EECS 660 Fundamentals of Computer Algorithms	3
EECS 662 Programming Languages	3
EECS 678 Introduction to Operating Systems	3
Senior electives	12
(EECS 638, EECS 647, EECS 648, EECS 649, EECS 663, EECS 665, EECS 672, EECS 690, and any EECS course numbered 700 or above. Under unusual circumstances other courses can be considered but only with an accompanying petition.)	

Requirements for EECS Honors (2 hours)

EECS 498 Honors Research	2
(Refer to the EECS Undergraduate Handbook for full requirements for graduation with departmental honors.)	

Mathematics (22 hours)

MATH 121 and MATH 122 Calculus I and II	10
MATH 220 Applied Differential Equations (3) or MATH 223 Vector Calculus (3)	3
MATH 290 Elementary Linear Algebra	2
EECS 210 Discrete Structures	4
EECS 461 Probability and Statistics	3

Basic Science (14 hours)

PHSX 211 and PHSX 212 General Physics I and II	8
Science electives (two courses) chosen from the following list: ... 6	
ASTR 391, BIOL 150, BIOL 152, CHEM 184, CHEM 188, GEOG 104 and GEOG 105, GEOG 304, GEOL 101	

English (9 hours)

ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
ENGL 362 Foundations of Technical Writing (3) or A 200-level English course (3)	3
(ENGL 362 is strongly recommended as the third course when enrollment is possible.)	

Communication (3 hours)

COMS 130 Speaker-Audience Communication	3
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Ethics (3 hours)

PHIL 375 Moral Issues in Computer Technology	3
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Humanities/Social Science Electives (18 hours)

Three humanities courses selected from at least two different departments	9
Three social sciences courses selected from at least two different departments	9
Selection options are the same as for electrical engineering.	

General Electives (5 hours)

To be taken from the list of approved technical, scientific, and professional courses (same as for electrical engineering) 5

Credit for ROTC Courses. Up to 6 hours of ROTC may be petitioned to count toward the general elective requirement.

Credit for Foreign Language. Foreign language courses (other than English or a student's native language) may be used for up to 3 credit hours of humanities/social sciences electives.

Professional Opportunities. Computer scientists may pursue the design, analysis, and implementation of computer algorithms; study the theory of programming methods and languages; or design and develop software systems. They also may work in artificial intelligence, database systems, parallel and distributed computation, human-computer interaction, computer graphics, operating systems, or computer systems analysis and administration. Computer scientists work for software companies, computer systems analysis, government and defense, telecommunications, or consulting firms.

● Electrical Engineering and Computer Science Courses

EECS 128 Introduction to Computer-based Information Systems (3). NM Acquisition of data and presentation of information algorithms, processes, and programming languages. Interacting with computers, internet, and world-wide web. Binary numbers and logic. Organization and components of a computer. Programs, software, and operating systems. The computer as a general tool for handling and processing information. Concepts of data communications, distributed systems, and database management. Applications of computer-based information systems. Projects involving document preparation, spread sheets, databases, presentations, graphics, and other applications as well as an introduction to programming. Prerequisite: MATH 101 or MATH 104 or eligibility to enroll in MATH 115. LEC

EECS 138 Introduction to Computing: ____ (3). NM Algorithm development, basic computer organization, syntax and semantics of a high-level programming language, including testing and debugging. Concept of structure in data and programs, arrays, top-down design, subroutines and library programs. Abstract data types. System concepts such as compilation and files. Nature and scope of computer science. Not open to students who have taken EECS 805. Prerequisite: MATH 101 or MATH 104, or meeting the requirements to enroll in MATH 115 or MATH 121. LEC

EECS 140 Introduction to Digital Logic Design (4). An introductory course in digital logic circuits covering number representation, digital codes, Boolean Algebra, combinatorial logic design, sequential logic design, and programmable logic devices. Co-requisite: MATH 121. LEC

The Department of Electrical Engineering and Computer Science offers courses and programs in electrical engineering, computer engineering, and computer science.

Some departments do not offer all courses in any one semester. Consult the Timetable of Classes for current course offerings, www.timetable.ku.edu.

EECS 141 Introduction to Digital Logic: Honors (4). An introductory course in digital logic circuits covering number representation, digital codes, Boolean algebra, combinatorial logic design, sequential logic design, and programmable logic devices. This course is intended for highly motivated students and includes honors-level assignments. Co-requisite: MATH 121, plus either acceptance into the KU Honors Program or consent of instructor. LEC

EECS 168 Programming I (4). Problem solving using a high level programming language and object oriented software design. Fundamental stages of software development are discussed: problem specification, program design, implementation, testing, and documentation. Introduction to programming using an object oriented language: using classes, defining classes, and extending classes. Introduction to algorithms and data structures useful for problem solving: arrays, lists, files, searching, and sorting. Student will be responsible for designing, implementing, testing, and documenting independent programming projects. Professional ethics are defined and discussed in particular with respect to computer rights and responsibilities. Co-requisite: MATH 121. LEC

EECS 169 Programming I: Honors (4). Problem solving using a high level programming language and object oriented software design. Fundamental stages of software development are discussed: problem specification, program design, implementation, testing, and documentation. Introduction to programming using an object oriented language: using classes, defining classes, extending classes. Introduction to algorithms and data structures useful for problem solving: arrays, lists, files, searching, and sorting. Students will be responsible for designing, implementing, testing, and documenting independent programming projects. Professional ethics are defined and discussed in particular with respect to computer rights and responsibilities. This course is intended for highly motivated students and includes honors-level assignments. Co-requisite: MATH 121, plus either acceptance into the KU Honors Program or consent of instructor. LEC

EECS 210 Discrete Structures (4). Mathematical foundations including logic, sets and functions, general proof techniques, mathematical induction, sequences and summations, number theory, basic and advanced counting techniques, solution of recurrence relations, equivalence relations, partial order relations, lattices, graphs and trees, algorithmic complexity, and algorithm design and analysis. Throughout there will be an emphasis on the development of general problem solving skills including algorithmic specification of solutions and the use of discrete structures in a variety of applications. Prerequisite: EECS 168 or 169 (or equivalent) and MATH 122. LEC

EECS 211 Circuits I (3). Analysis of linear electrical circuits: Kirchhoff's laws; source, resistor, capacitor and inductor models; nodal and mesh analysis; network theorems; transient analysis; Laplace transform analysis; steady-state sinusoidal analysis; computer-aided analysis. Prerequisite: Co-requisite: Math 220 and MATH 290. LEC

EECS 212 Circuits II (4). Continued study of electrical circuits: Steady-state power analysis, three-phase circuits, transformers, frequency response, and two-port network analysis. Prerequisite: EECS 211. LEC

EECS 220 Electromagnetics I (4). Vector analysis. Electrostatic and magnetic fields in a vacuum and material media. Electromagnetic fields and Maxwell's equations for time-varying sources. The relationship between field and circuit theory. Simple applications of Maxwell's equations. Prerequisite: MATH 220, MATH 290, PHSX 211, and EECS 211. LEC

EECS 268 Programming II (4). This course continues developing problem solving techniques by focusing on the imperative and object-oriented styles using Abstract Data Types. Basic data structures such as queues, stacks, trees, and graphs will be covered. Recursion. Basic notions of algorithmic efficiency and performance analysis in the context of sorting algorithms. Basic Object-Oriented techniques. An associated laboratory will develop projects reinforcing the lecture material. Three class periods and one laboratory period per week. Prerequisite: EECS 168 or EECS 169. LEC

EECS 312 Electronic Circuits I (3). Introduction to diodes, BJTs and MOSFETs, and their use in electronic circuits, especially digital circuits. Prerequisite: Upper-level eligibility. Corequisite: EECS 212. LEC

EECS 315 Electric Circuits and Machines (3). Introduction to DC and AC electrical circuit analysis techniques, AC power calculations, transformers, three-phase systems, magnetic circuits, and DC and AC machines with a focus on applications. Not open to electrical or computer engineering majors. Prerequisite: A course in differential equations and eight hours of physics. LEC

EECS 316 Circuits, Electronics, and Instrumentation (3). Introduction to DC and AC electrical circuit analysis, operational amplifiers, semiconductors, digital circuits and systems, and electronic instrumentation and measurements with a focus on applications. Not open to electrical or computer engineering majors. Students may not receive credit for both EECS 316 and EECS 317. Prerequisite: A course in differential equations and eight hours of physics. LEC

EECS 317 Electronics and Instrumentation (2). Introduction to operational amplifiers, semiconductors, digital circuits and systems, and electronic instrumentation and measurements with a focus on applications. Not open to electrical or computer engineering majors.

Students may not receive credit for both EECS 316 and EECS 317.

Prerequisite: EECS 315. LEC

EECS 318 Circuits and Electronics Lab (1). Laboratory exercises intended to complement EECS 315, EECS 316 and EECS 317. Experiments include DC circuits, analog electronics, and digital electronics. Not open to electrical or computer engineering majors. Co-requisite: EECS 316 or EECS 317. LAB

EECS 360 Signal and System Analysis (4). Fourier signal analysis (series and transform); linear system analysis (continuous and discrete); Z-transforms; analog and digital filter analysis. Analysis and design of continuous and discrete time systems using MATLAB. Prerequisite: EECS 212 and upper level EECS eligibility. LEC

EECS 368 Programming Language Paradigms (3). The course is a survey of programming languages: their attributes, uses, advantages, and disadvantages. Topics include scopes, parameter passing, storage management, control flow, exception handling, encapsulation and modularization mechanism, reusability through genericity and inheritance, and type systems. In particular, several different languages will be studied which exemplify different language philosophies (e.g., procedural, functional, object-oriented, logic, scripting). Prerequisite: EECS 268 and upper-level EECS eligibility. LEC

EECS 388 Computer Systems and Assembly Language (4). Internal organization of microprocessor and microcontroller systems; programming in assembly language; input and output system; controlling external devices. The course will focus on one or two specific microprocessors and computer systems. Prerequisite: EECS 140 or EECS 141, EECS 168 or EECS 169, and upper-level EECS eligibility. LEC

EECS 399 Projects (1-5). An electrical engineering, computer engineering, or computer science project pursued under the student's initiative, culminating in a comprehensive report, with special emphasis on orderly preparation and effective composition. Prerequisite: Upper-level EECS eligibility and consent of instructor. IND

EECS 412 Electronic Circuits II (3-4). Discrete and integrated amplifier analysis and design. Introduction to feedback amplifier analysis and design. Introduction to feedback amplifiers. Prerequisite: EECS 312 and upper-level EECS eligibility. LEC

EECS 420 Electromagnetics II (4). This course applies electromagnetic analysis to high frequency devices and systems where wave propagation effects cannot be neglected. Topics covered include transmission lines, space waves, waveguides, radiation, and antennas. Laboratory experiments include transmission line, waveguide, and antenna measurements and characterizations. 3 hours lecture, 1 hour laboratory. Prerequisite: EECS 220 and upper-level EECS eligibility. LEC

EECS 443 Digital Systems Design (4). The design of computer systems from hardware point of view. The implementation of functional and control units. Introduction to VHDL, and its use in modeling and designing digital systems. Prerequisite: EECS 388. LEC

EECS 444 Control Systems (3). An introduction to the modeling, analysis, and design of linear control systems. Topics include mathematical models, feedback concepts, state-space methods, time response, system stability in the time and transform domains, design using PID control and series compensation, and digital controller implementation. Prerequisite: EECS 212 and EECS 360. LEC

EECS 448 Software Engineering I (3). This course covers the systematic development of software products. It first outlines the problems encountered in large software systems and their life-cycle. It then concentrates on the methods and techniques for specification, design, and implementation of software: requirements analysis and specification; systems planning on design; software design and design documentation; implementation techniques, unit testing, and integration; validation and verification; early preparation of documentation including user manuals. Prerequisite: EECS 268 and upper-level EECS eligibility. LEC

EECS 461 Probability and Statistics (3). Introduction to probability and statistics with applications. Reliability of systems. Discrete and continuous random variables. Expectations, functions of random variables, and linear regression. Sampling distributions, confidence intervals, and hypothesis testing. Joint, marginal, and conditional distribution and densities. Prerequisite: MATH 290, MATH 220 or MATH 223, and upper-level EECS eligibility. LEC

EECS 470 Electronic Devices and Properties of Materials (3). An introduction to crystal structures, and metal, insulator, and semiconductor properties. Topics covered include the thermal, electric, dielectric, and optical properties of these materials. A significant portion of this course is devoted to the properties of semiconductors and semiconductor devices. Prerequisite: PHSX 313 and upper-level EECS eligibility. LEC

EECS 498 Honors Research (1-2). Arranged to allow students to satisfy the independent research requirement for graduation with departmental honors. Prerequisite: Consent of instructor and upper-level EECS eligibility. IND

EECS 501 Senior Design Laboratory I (3). A lecture/laboratory course involving the design and implementation of prototypes of electrical and computer type products and systems. The project specifications require consideration of ethics, economics, manufacturing,

and safety. 2 hours lecture, 1 hour laboratory. Prerequisite: EECS 420. Corequisite: EECS 412. LEC

EECS 502 Senior Design Laboratory II (3). A lecture/laboratory course involving the design and implementation of prototypes of electrical and computer type products and systems. The project specifications require consideration of ethics, economics, health, manufacturing, and safety. Prerequisite: EECS 501. LEC

EECS 510 Introduction to the Theory of Computing (3). Finite state automata and regular expressions. Context-free grammars and push-down automata. Turing machines. Models of computable functions and undecidable problems. The course emphasis is on the theory of computability, especially on showing limits of computation. May be taken for graduate credit. (Same as MATH 510.) Prerequisite: EECS 210 and upper-level EECS eligibility. LEC

EECS 512 Electronic Circuits III (3). Feedback amplifier circuit analysis, power amplifiers, analog IC op-amp techniques and analysis, filter approximation and realization, oscillators, wave generators and shapers. Prerequisite: EECS 412. LEC

EECS 541 Computer Systems Design Laboratory I (3). A two semester lecture/laboratory course involving the specification, design, implementation, analysis, and documentation of a significant hardware and software computer system. Laboratory work involves software, hardware, and hardware/software trade-offs. Project requirements include consideration of ethics, economics, manufacturing, safety, and health aspects of product development. Can be taken only during the senior year. Prerequisite: EECS 443 and EECS 448. LEC

EECS 542 Computer Systems Design Laboratory II (3). A two semester lecture/laboratory course involving the specification, design, implementation, analysis, and documentation of a significant hardware and software computer system. Laboratory work involves software, hardware, and hardware/software trade-offs. Project requirements include consideration of ethics, economics, manufacturing, safety, and health aspects of product development. Can be taken only during the senior year. Prerequisite: EECS 541. LEC

EECS 546 Integrated Circuit Design (3). The design, analysis, simulation, and layout of integrated circuit systems using CMOS technology. Students will carry out a design from initial concept through mask layout. The use of computer aided design tools is emphasized. Prerequisite: EECS 312 and EECS 470. LEC

EECS 560 Data Structures (3). Abstract data types and concrete data structures including their associated algorithms. Topics include sets, graphs, trees, priority queues, heaps, mergeable heaps, balanced tree structures, and advanced data structures on trees. Application to problem solving including consideration of tradeoffs incurred in the choice of implementation. Advanced sorting techniques. Efficiency of algorithms, big-oh, big-omega, worst case analysis, lower bounds on problem complexity. Basic techniques of algorithm design including divide and conquer, greedy, backtracking, and dynamic programming. Prerequisite: EECS 210 and EECS 448. LEC

EECS 562 Introduction to Communication Systems (4). A first course in communications, including lectures and integrated laboratory experiments. After a review of spectral analysis and signal transmission, analog and digital communications are studied. Topics include: sampling, pulse amplitude modulation, and pulse code modulation; analog and digital amplitude, frequency, and phase modulation; frequency and time division multiplexing; and noise performance of analog modulation techniques. Prerequisite: EECS 212 and EECS 360. LEC

EECS 580 Electrical Energy Conversion (3). An introductory course on selected topics in electrical machinery and power electronics. Emphasis is placed on the principles underlying conversion of energy between electrical and mechanical domains. Types of electrical machinery covered include: dc motors and generators; transformers; induction motors and generators; and synchronous motors and generators. The appropriate application of these machines is considered in terms of the external operating characteristics. The operating characteristics of power electronic switching devices are related to electric power conversion: ac to dc, dc to ac, dc to dc, and ac to ac. There is an emphasis on safety as regards electrical systems. Prerequisite: EECS 220 and EECS 312. LEC

EECS 603 Information Processing with C++ (3). Fundamental concepts of object-oriented programming and the developments of abstract data types using C++. Case studies with applications to industry and the business world will also be included. Not open for credit toward any EECS degree. Prerequisite: EECS 138. LEC

EECS 611 Noise Reduction in Electronic Systems (3). A study of the sources of noise in electronic systems and how the effects of the noise can be reduced. Topics include: external and intrinsic noise sources, shielding, grounding, bypassing, filtering, contact protection, and active device noise. Prerequisite: EECS 220, EECS 312, and EECS 461. LEC

EECS 622 Microwave and Radio Transmission Systems (3). Introduction to radio transmission systems. Topics include radio transmitter and receiver design, radiowave propagation phenomenology, antenna performance and basic design, and signal detection in the presence of noise. Students will design radio systems to meet speci-

fied performance measure. Prerequisite: EECS 420. Corequisites: EECS 461 and EECS 562. LEC

EECS 628 Fiber Optic Communication Systems (3). Description and analysis of the key components in optical communication systems. Topics covered include quantum sources, fiber cable propagation and dispersion characteristics, receiver characteristics, and system gain considerations. Prerequisite: EECS 220 and PHSX 313 or equivalent and upper-level EECS eligibility. LEC

EECS 638 Fundamentals of Expert Systems (3). Basic information about expert systems: architecture of an expert system, building expert systems, uncertainty in expert systems, taxonomy of expert systems. Knowledge representation: first order logic, production systems, semantic nets, frames. Uncertainty in expert systems, one-valued approaches: probability theory, systems using Bayes' rule, and systems using certainty theory; two-valued approaches: systems using Dempster-Shafer theory and system INFERNO; set-valued approaches: systems using fuzzy set theory and systems using rough set theory. Prerequisite: EECS 560 or consent of instructor. LEC

EECS 644 Introduction to Digital Signal Processing (3). Discrete time signal and systems theory, sampling theorem, z-transforms, digital filter design, discrete Fourier transform, FFT, and hardware considerations. Prerequisite: EECS 360. LEC

EECS 645 Computer Architecture (3). The structure and design of computing systems. Examination and analysis of computing systems. Examination and analysis of instruction set architectures, pipelined control and arithmetic units, vector processors, memory hierarchies, and performance evaluation. Prerequisite: EECS 388. LEC

EECS 647 Introduction to Database Systems (3). Introduction to the concept of databases and their operations. Basic concepts, database architectures, storage structures and indexing, data structures: hierarchical, network, and relational database organizations. Emphasis on relational databases and retrieval languages SQL, QBE, and ones based on relational algebra and relational calculus; brief description of predicate calculus. Theory of databases, normal forms, normalization, candidates keys, decomposition, functional dependencies, multi-valued dependencies. Introduction to the design of a simple database structure and a data retrieval language. Prerequisite: EECS 448. LEC

EECS 648 Software Engineering Tools (3). This course focuses on the software engineering tools and practices currently in use in the industry, supporting the complete software development lifecycle. The course provides hands-on experience with current software development tools. Topics include software engineering artifacts, team structure and roles, work contracts, requirements elicitation and analysis, specifications, supplementary specifications, use-case models, activity diagrams, use-case specifications, traceability, technical design, design review meetings, coding standards, code quality, code reviews, and modern software engineering tools. Prerequisite: EECS 448. LEC

EECS 649 Introduction to Artificial Intelligence (3). General concepts, search procedures, two-person games, predicate calculus and automated theorem proving, nonmonotonic logic, probabilistic reasoning, rule based systems, semantic networks, frames, dynamic memory, planning, machine learning, natural language understanding, neural networks. Corequisite: EECS 368. LEC

EECS 660 Fundamentals of Computer Algorithms (3). Basic concepts and techniques in the design and analysis of computer algorithms. Models of computations. Simple lower bound theory and optimality of algorithms. Computationally hard problems and the theory of NP-Completeness. Introduction to parallel algorithms. Prerequisite: EECS 560 and either EECS 461 or MATH 526. LEC

EECS 662 Programming Languages (3). Formal definition of programming languages including specification of syntax and semantics. Simple statements including precedence, infix, prefix, and postfix notation. Global properties of algorithmic languages including scope of declaration, storage allocation, grouping of statements, binding time of constituents, subroutines, coroutines, and tasks. Run-time representation of program and data structures. Prerequisite: EECS 368 and EECS 388 and EECS 560. LEC

EECS 663 Introduction to Communication Networks (3). An introduction to the principles used in communication networks is given in this course. Topics include a discussion of the uses of communications networks, network impairments, standards, the ISO reference model for organizing network functions. Telephone networks are introduced as well as emerging ISDN and B-ISDN systems. Switching and signaling within the telephone system are specifically addressed. Local Area Network technology and protocols are discussed. Link and network layer protocols are introduced. Basic concepts of network performance evaluation are studied, both analytical and simulation techniques are considered. Prerequisite: EECS 168 or EECS 169 and EECS 461. LEC

EECS 665 Compiler Construction (3). Compilation of simple expressions and statements. Organization of a compiler including symbol tables, lexical scan, syntax scan, object code generation, error diagnostics, code optimization techniques, and overall design. Compilation techniques and run-time structures in a block-structured language

The Radar Systems and Remote Sensing Laboratory in Nichols Hall develops, evaluates, and applies new radar systems and other related technologies for remote sensing of the land, sea, ice, and atmosphere.

Engineering management courses are offered on the Edwards Campus, 12600 Quivira Rd., Overland Park, KS 66213-2402, phone (from Lawrence): 864-8400 or (913) 897-8400, <http://emgt.ku.edu>.

such as PASCAL or B. Use of compiler writing languages and bootstrapping. Prerequisite: EECS 368, EECS 448, and EECS 510. LEC

EECS 670 Introduction to Semiconductor Processing (3). An overview of various processes to fabricate semiconductor devices and integrated circuits. Topics covered include crystal growth, oxidation, solid-state diffusion, ion implantation, photolithography, chemical vapor deposition, epitaxial growth, metalization, and plasma etching of thin films. (Same as C&PE 655.) Prerequisite: Senior standing in C&PE or EECS, or consent of instructor. LEC

EECS 672 Introduction to Computer Graphics (3). Foundations of 2D and 3D computer graphics. Structured graphics application programming. Basic 2D and 3D graphics algorithms (modeling and viewing transformations, clipping, projects, visible line/surface determination, basic empirical lighting, and shading models), and aliasing. Prerequisite: EECS 448. LEC

EECS 678 Introduction to Operating Systems (3). The purpose of the course is to provide the students with the concepts necessary to enable them to: (a) identify the abstract services common to all operating systems, and explore the many variations possible, (b) define the basic operating system components that carry out these machine independent abstractions, (c) understand how the entire system fits together, not merely how one or two important parts interact, and (d) understand the means by which fundamental problems in operating systems can be analyzed. Prerequisite: EECS 388 and EECS 448. LEC

EECS 690 Special Topics: ____ (1-3). Arranged as needed to present appropriate material to groups of students. May be repeated for additional credit. Prerequisite: Upper-level EECS eligibility and consent of instructor. LEC

EECS 692 Directed Reading (1-3). Reading under the supervision of an instructor on a topic chosen by the student with the advice of the instructor. May be repeated for additional credit. Consent of the department required for enrollment. Prerequisite: Upper-level EECS eligibility and consent of instructor. IND

EECS 700 Special Topics: ____ (1-5).

EECS 713 High-speed Digital Circuit Design (3).

EECS 716 Formal Language Theory (3).

EECS 720 Electromagnetics for Communications and Radar (3).

EECS 721 Antennas (3).

EECS 722 Mathematical Logic (3).

EECS 723 Microwave Engineering (3-4).

EECS 725 Introduction to Radar Systems (3).

EECS 735 Automated Theorem Proving (3).

EECS 740 Digital Image Processing (3).

EECS 741 Computer Vision (3).

EECS 742 Digital Video for Multimedia Systems (3).

EECS 744 Digital Signal Processing I (3).

EECS 745 High-performance Integrated Networks (3).

EECS 747 Mobile Robotics (3).

EECS 749 Knowledge-based Systems (3).

EECS 750 Operating Systems (3).

EECS 752 Concurrent Software Systems (3).

EECS 753 Embedded and Real-time Computer Systems (3).

EECS 755 System Requirements Modeling and Analysis (3).

EECS 761 Programming Paradigms (3).

EECS 762 Programming Language Foundation (3).

EECS 764 Analysis of Algorithms (3).

EECS 767 Information Retrieval (3).

EECS 773 Advanced Graphics (3).

EECS 774 Geometric Modeling (3).

EECS 781 Numerical Analysis I (3).

EECS 782 Numerical Analysis II (3).

techniques of linear analysis of ballistics and weapons are introduced. The dynamics of the basic components of weapons control systems are investigated and stated as transfer functions. This course provides the tools for the future development in the student's understanding of the basic principles that underlie all modern naval weapons systems. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1971. Such courses count within the limit of 25 hours accepted from other schools and divisions. (Same as NAVY 180.) Prerequisite: MATH 002. LEC

ENGR 184 Introduction to Naval Ships Systems II (3). The concept of weapons systems and the systems approach are explored. The techniques of linear analysis of ballistics and weapons are introduced. The dynamics of the basic components of weapons control systems are investigated and stated as transfer functions. This course provides the tools for the future development in the student's understanding of the basic principles that underlie all modern naval weapons systems. Approved for degree credit in the College of Liberal Arts and Sciences effective Fall 1971. Such courses count within the limit of 25 hours accepted from other schools and divisions. (Same as NAVY 184.) LEC

ENGR 300 Cooperative Engineering Education Experience (1). Engineering work experience with a recognized engineering organization. The work must be professional in nature and not merely routine. A final summary report must be submitted to the student's major department at the conclusion of each continuous period of employment and may cover more than one sequential semester or summer session. Credit for this course cannot be used toward graduation requirements. Prerequisite: Permission of major department. FLD

ENGR 301 Navigation and Operations I (3). First semester juniors. Three hours classroom and two and one-half hours laboratory per week. A comprehensive study of the theory, principles, and procedures of ship navigation in coastal and open ocean environment. Includes piloting, triangulation, ocean and tidal currents, navigational astronomy, spherical trigonometry, sight reduction, publications and logs; an introduction to electronic navigation, including theory of wave propagation, hyperbolic and azimuthal systems, doppler, inertial, and satellite systems. (Same as NAVY 300.) LEC

ENGR 304 Technology: Its Past and Its Future (3). An examination of the role of technology and its influence on society. The historical development of technology will be traced up to modern times with an emphasis on its relations to the humanities. Attention will be given to the future of different branches of technology and alternative programs for their implementation. (Same as HIST 404.) LEC

ENGR 305 Navigation and Operations II (3). Second semester juniors. Three hours classroom and two and one-half hours laboratory per week. A study of laws for the prevention of ship collisions; tactical formations and dispositions, relative motion, and maneuvering board. Major portion of the semester is devoted to operations research and analysis, with an introduction to discrete probability theory, game theory, measures of effectiveness, active and passive sonar equations, and review of systems analysis and cost effectiveness. (Same as NAVY 304.) Prerequisite: MATH 111 or higher. LEC

ENGR 360 Special Topics: ____ (1-5). Courses on special topics of current interest to engineers, such as ethics, engineering economics, engineering practice, communications, teamwork, and professional and career development. Prerequisite: Approval of the instructor. FLD

ENGR 504 Technical Writing for Engineers (1-3). The process of planning, organizing, initiating, drafting, and editing engineering documents. Writing, editing, and publishing the Kansas Engineer magazine. Graded on satisfactory/unsatisfactory basis. Prerequisite: ENGL 102. FLD

ENGR 515 Verbal Communications in Engineering (1). Meets one hour per week. Planning, preparing, and presenting speeches on a variety of topics throughout the semester. Includes preparing speeches, spontaneous speeches and the evaluation of speeches by other students. Prerequisite: Two English courses and at least junior or senior standing in engineering or consent of instructor. FLD

Engineering Management

No undergraduate program is offered in this area, but EMGT courses may be taken to count toward undergraduate degrees in other areas.

● Engineering Management Course

EMGT 608 Principles of Engineering Management (3). A study of the principles used by the engineer in managing a technology-based enterprise. Topics include planning, organizing, staffing, directing, and controlling. Prerequisite: Senior or graduate standing in an engineering curriculum or consent of the instructor. LEC

Engineering

No undergraduate program is offered in this area, but some ENGR courses may be taken to count toward undergraduate degrees in engineering.

● Engineering Courses

ENGR 108 Introduction to Engineering (2). An introductory level course with emphasis on engineering problem definition, methods simulation, and solution, including approaches to engineering design; engineering units and terminology; engineering disciplines and career areas, and engineering code of ethics. LEC

ENGR 180 Introduction to Naval Ships Systems I (3). The concept of weapons systems and the systems approach are explored. The

Engineering Physics

Chair: Steven J. Sanders
Malott Hall, 1251 Wescoe Hall Dr., Room 1082
Lawrence, KS 66045-7582
(785) 864-4626, www.physics.ku.edu

Engineering physics combines a strong background in classical and modern physics and mathematics with a concentration in one or more fields of engineering. The student is exposed to the physical science underlying modern technology and to its application. Engineering design is emphasized in the upper-division laboratory courses, and each design concentration incorporates a significant design component as well as providing a strong base in one or more areas of engineering science. In physics, the design activities occur individually or in small groups, while in engineering these usually occur in larger teams. Students specialize in one of four design concentrations: aerospace systems, chemical systems, digital electronic systems, or electromechanical control systems.

Educational Objectives

The overall objective is that graduates, using a good general education received in this program, have successful careers in industry, government service, or academic life in either engineering or physics. These objectives produce graduates who

1. Have a background in the physical sciences and mathematics that enables them to understand developments in basic science and technology throughout their professional lives.
2. Can apply this knowledge in one or more areas of engineering.
3. Have sufficient education in physics and engineering to enter graduate study in either field or to enter industrial positions in research and development.
4. Can design and construct experiments, including the analysis and interpretation of data.
5. Can apply their knowledge to the definition of engineering problems and find practical solutions to these problems.
6. Can work in a team and accept and support team decisions.
7. Can communicate effectively, both orally and in writing.
8. Have an understanding of the importance of professional responsibility and high ethical standards not only in relation to engineering practice, but also in relation to the scientific community and to society.
9. Have the broad education needed to understand the impact of engineering practice on society and on the environment.
10. Recognize the need, and have the ability, to engage in lifelong learning.

Departmental Honors Program

Engineering physics students may graduate with departmental honors by achieving a minimum grade-point average of 3.5 in major courses taken in residence and at other institutions, by completing at least 1 credit hour of undergraduate research with a grade of B or better in PHSX 501 or PHSX 503, and presenting a written report of the research.

First- and Second-year Preparation

Recommended enrollments for the first two years vary with the design concentration selected (see below). Consult a departmental adviser as early as possible. Courses common to all concentrations are

First semester (13 hrs.): CHEM 184, ENGL 101, MATH 121.
Second semester (12 hrs.): ENGL 102, MATH 122, PHSX 211 or PHSX 213.
Third semester (9 hrs.): MATH 223, MATH 290, PHSX 212 or PHSX 214.
Fourth semester (7 hrs.): MATH 220 or MATH 320, PHSX 313, PHSX 316.

Requirements for the Bachelor of Science Degree in Engineering Physics

A total of 127-128 hours is required for the degree. Each student takes a common core of courses and selects one of four design concentrations.

Common Core (70 credit hours)

Physics (26 hours)

PHSX 211, PHSX 212, PHSX 313 and PHSX 316	
General Physics I, II, and III	12
EPHX 516 Physical Measurements	4
EPHX 521 Mechanics I	3
EPHX 531 Electricity and Magnetism	3
EPHX 601 Design of Physical and Electronic Systems	4

Chemistry (5 hours)

CHEM 184 Foundations of Chemistry I	5
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Mathematics (18 hours)

MATH 121 and MATH 122 Calculus I and II	10
MATH 223 Vector Calculus	3
MATH 290 Elementary Linear Algebra.....	2
MATH 220 Applied Differential Equations (3) or	
MATH 320 Elementary Differential Equations (3)	3

English (6 hours)

ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3

General Education Component (15 hours)

Economics elective	3
Ethics elective	3
Communication elective	3
Environmental concern elective	3
Contemporary issues elective	3

Design Concentrations (57-58 hours)

Aerospace Systems

AE 245 Introduction to Aerospace Engineering	3
AE 345 Fluid Mechanics	3
AE 421 Aerospace Computer Graphics	4
AE 445 Aircraft Aerodynamics and Performance	3
AE 507 Aerospace Structures I	3
AE 521 Aerospace Systems Design I	4
AE 522 Aerospace Systems Design II (or AE 523 or AE 524)	4
AE 545 Fundamentals of Aerodynamics	5
AE 550 Dynamics of Flight I	3
AE 551 Dynamics of Flight II	4
AE 572 Fundamentals of Jet Propulsion	3
C&PE 121 Introduction to Computers in Engineering	3
C&PE 221 Basic Engineering Thermodynamics	3
CE 301 Statics and Dynamics	5
CE 310 Strength of Materials	4
EPHX 536 Electronic Circuit Measurement and Design	4

Chemical Systems

C&PE 121 Introduction to Computers in Engineering	3
C&PE 211 Material and Energy Balances	3
C&PE 221 Basic Engineering Thermodynamics	3
C&PE 511 Momentum Transfer	3
C&PE 512 Process Engineering Thermodynamics	3
C&PE 521 Heat Transfer	3
C&PE 522 Economic Appraisal of Chemical and Petroleum Projects ..	2
C&PE 523 Mass Transfer	4
C&PE 524 Chemical Engineering Kinetics and Reactor Design ..	3
C&PE 613 Chemical Engineering Design I	4
C&PE 615 Introduction to Process Dynamics and Control	3
C&PE 616 Chemical Engineering Laboratory I	3
C&PE 623 Chemical Engineering Design II	2
CHEM 188 Foundations of Chemistry II	5
CHEM 624 Organic Chemistry I	3
CHEM 646 Introduction to Physical Chemistry	4
EPHX 536 Electronic Circuit Measurement and Design	4
EPHX 611 Introductory Quantum Mechanics	3

Digital Electronic Systems

EECS 140 Introduction to Digital Logic Design	4
EECS 168 and EECS 268 Programming I and II	8
EECS 211 and EECS 212 Circuits I and II	7
EECS 312 Electronic Circuits I	3
EECS 360 Signal and System Analysis	4
EECS 388 Computer Systems and Assembly Language	4
EECS 443 Digital Systems Design	4
EECS 448 Software Engineering I	3
EECS 461 Probability and Statistics	3
EECS 470 Electronic Devices and Properties of Materials	3
EECS 541 Computer Systems Design Laboratory I	3
EECS 542 Computer Systems Design Laboratory II	3
EECS 645 Computer Architecture	3
EECS Elective (EECS 546, EECS 644, EECS 670, EECS 690 or	
EECS 713)	3
EPHX 611 Introductory Quantum Mechanics	3

Electromechanical Control Systems

EECS 140 Introduction to Digital Logic Design	4
EECS 168 and EECS 268 Programming I and II	8
EECS 211 and EECS 212 Circuits I and II	7
EECS 312 Electronic Circuits I	3

Engineering physics courses are offered in cooperation with the Department of Physics and Astronomy in the College of Liberal Arts and Sciences.

KU's total research expenditures in fiscal year 2005 for all projects, including sponsored research, training and service grants in all fields, were \$281 million, a 3 percent increase over 2004.

EECS 360 Signal and System Analysis	4
EECS 444 Control Systems (3) or AE 750 Applied Optimal Control (3) or AE 753 Digital Flight Controls (3)	3
EPHX 611 Introductory Quantum Mechanics	3
ME 228 Computer Graphics	3
ME 311 Mechanics of Materials	4
ME 312 Basic Engineering Thermodynamics	3
ME 501 Mechanical Engineering Design Process	3
ME 528 Mechanical Design I	3
ME 641, ME 642 or ME 643 Design Project Option A, B or C ...	3
ME 708 Microcomputer Applications in Mechanical Engineering ...	3
Additional engineering elective	3

Credit for ROTC Courses. Students can petition for ROTC credit to replace a communication elective.

Credit for Foreign Language. Foreign language courses are not applicable to this degree program.

Professional Opportunities

Engineering physicists combine an extensive background in physics, the science that underlies modern technology, with an engineering degree. Their broad training and technical breadth provide a unique flexibility. They have the science background to pursue pure research opportunities, the engineering degree and design concentration to solve practical problems in industry or a wide variety of other settings, and the understanding to act as a communication link between highly diversified divisions of an organization. Engineering physicists typically work in aerospace and avionic industries, electronics industries, research and development laboratories, telecommunications, design and consulting firms, government agencies, and defense contractors. Many engineering physics graduates attend graduate school before entering the work force.

● Engineering Physics Courses

EPHX 501 Honors Research (1-4). This course is for students seeking Departmental Honors in Astronomy, Engineering Physics, or Physics to fulfill the undergraduate research requirement. At the completion of the required four hours of total enrollment, a written and oral report of the research is required. (Same as PHSX 501.) Prerequisite: Junior/Senior standing in Astronomy, Engineering Physics, or Physics. IND

EPHX 503 Undergraduate Research (1-4). This course is for students seeking to fulfill the undergraduate research requirement. Students are expected to participate in some area of ongoing research in the department, chosen with the help of their adviser. At the end of the term, students will present their results in a seminar to other students and faculty. (Same as ASTR 503 and PHSX 503.) Prerequisite: Junior/Senior standing in Astronomy, Engineering Physics, or Physics, or permission of instructor. IND

EPHX 516 Physical Measurements (4). A laboratory course emphasizing experimental techniques and data analysis, as well as scientific writing and presentation skills. Experiments will explore a range of classical and modern physics topics. (Same as PHSX 516.) Prerequisite: PHSX 313, EPHX 316, and EPHX 521. (EPHX 521 may be taken concurrently.) LAB

EPHX 518 Mathematical Physics (3). N Applications of modern mathematical methods to problems in mechanics and modern physics. Techniques include application of partial differential equations and complex variables to classical field problems in continuous mechanics, unstable and chaotic systems, electrodynamics, hydrodynamics, and heat flow. Applications of elementary transformation theory and group theory, probability and statistics, and nonlinear analysis to selected problems in modern physics as well as to graphical representation of experimental data. Prerequisites: PHSX 313 and MATH 320 or permission of instructor. (Same as PHSX 518.) LEC

EPHX 521 Mechanics I (3). Newton's laws of motion. Motion of a particle in one, two, and three dimensions. Motion of a system of particles. Moving coordinate systems. (Same as PHSX 521.) Prerequisite: PHSX 211 or PHSX 213, MATH 223, MATH 290 and MATH 220 or MATH 320. LEC

EPHX 531 Electricity and Magnetism (3). The properties of electric and magnetic fields, including electrostatics, Gauss' Law, boundary value methods, electric fields in matter, electromagnetic induction, magnetic fields in matter, the properties of electric and magnetic dipoles and of dielectric and magnetic materials. (Same as PHSX 531.) Prerequisite: PHSX 212 or PHSX 214, PHSX 521 or special permission, MATH 223, MATH 290 and MATH 220 or MATH 320. LEC

EPHX 536 Electronic Circuit Measurement and Design (4). A laboratory course that explores the theory and experimental techniques of analog and digital electronic circuit design and measurements. Topics include transient response, transmission lines, transistors, operational amplifiers,

and digital logic. (Same as PHSX 536.) Prerequisite: PHSX 212 or PHSX 214, MATH 223 and MATH 290. PHSX 313 and 316 recommended. LEC

EPHX 600 Special Topics in Physics and Astrophysics: ____ (3). Different topics will be covered as needed. This course will address topics in physics and astrophysics not covered in regularly offered courses. May be repeated if topic differs. (Same as PHSX 600.) Prerequisite: Permission of instructor. LEC

EPHX 601 Design of Physical and Electronic Systems (4). A laboratory course emphasizing the application of physical principles to the design of systems for research, monitoring, or control. Topics include the use of microcomputers as controllers, interfacing microcomputers with measurement devices, and use of approximations and/or computer simulation to optimize design parameters, linear control systems, and noise. (Same as PHSX 601.) Prerequisite: Twelve hours of junior-senior credit in physics or engineering, including one laboratory course. LEC

EPHX 611 Introductory Quantum Mechanics (3). An overview of modern physics covering wave-particle duality, the Schrodinger Equation, simple systems and potentials, and the harmonic oscillator. Operators, eigenvalues, and measurements; central forces and bound states, angular momentum and its addition, approximation methods. (Same as PHSX 611.) Prerequisite: PHSX 313 and MATH 290. LEC

EPHX 615 Numerical and Computational Methods in Physics (3). An introduction to the use of numerical methods in the solution of problems in physics for which simplifications allowing closed-form solutions are not applicable. Examples are drawn from mechanics, electricity, magnetism, thermodynamics, and optics. (Same as PHSX 615.) Prerequisite: PHSX 313, MATH 320 or equivalent, and EECS 138 or equivalent. LEC

EPHX 621 Mechanics II (3). Continuation of PHSX 521. Lagrange's equations and generalized coordinates. Mechanics of continuous media. Tensor algebra and rotation of a rigid body. Special relativity and relativistic dynamics. (Same as PHSX 621.) Prerequisite: EPHX 521 or PHSX 521. LEC

EPHX 623 Physics of Fluids (3). An introduction to basic fluid mechanics in which fundamental concepts and equations will be covered. Topics will include hydrostatics, hydrodynamics, wave propagation in fluids, and applications in the areas such as astrophysics, atmospheric physics, and geophysics. (Same as PHSX 623.) Prerequisite: PHSX 212 or PHSX 214, MATH 223, and MATH 290. LEC

EPHX 631 Electromagnetic Theory (3). Maxwell's equations, wave propagation, optics and waveguides, radiation, relativistic transformations of fields and sources, use of covariance, and invariance of relativity. Normally a continuation of PHSX 531. (Same as PHSX 631.) Prerequisite: EPHX 531 or PHSX 531. LEC

EPHX 641 Introduction to Nuclear Physics (3). Experimental methods in nuclear physics, elementary concepts and simple considerations about nuclear forces, alpha and beta decay, gamma radiation, nuclear structure, and reaction systematics. (Same as PHSX 641.) Prerequisite: PHSX 313 and PHSX 611. LEC

EPHX 655 Optics (3). Geometric optics. Wave properties of light: interference, diffraction, coherence. Propagation of light through matter. Selected topics in modern optics, e.g., lasers, fibers. (Same as PHSX 655.) Prerequisite: PHSX 313 and PHSX 316. LEC

EPHX 661 Introduction to Elementary Particle Physics (3). Properties and interactions of quarks, leptons, and other elementary particles; symmetry principles and conservation laws; broken symmetry; gauge bosons; the fundamental interactions, grand unified theories of strong, electromagnetic, and weak interactions; the cosmological implications of elementary particle physics. (Same as PHSX 661.) Prerequisite: PHSX 313 and MATH 320. LEC

EPHX 671 Thermal Physics (3). Development of thermodynamics from statistical considerations. Elementary techniques of calculating thermodynamic properties of systems. Application to classical problems of thermodynamics. Elementary kinetic theory of transport processes. Fermi-Dirac and Bose-Einstein systems. (Same as PHSX 671.) Prerequisite: EPHX 611. LEC

EPHX 681 Concepts in Solids (3). Properties of common types of crystals and amorphous solids. Lattice vibrations and thermal properties of solids. Electrons and holes in energy bands of metals, semiconductors, superconductors, and insulators. (Same as PHSX 681.) Prerequisite: PHSX 313 and PHSX 611. LEC

EPHX 691 Astrophysics I (3). An introduction to radiation processes, thermal processes, and radiative transfer in stellar atmospheres and the interstellar medium. (Same as ASTR 691 and PHSX 691.) Prerequisite: PHSX 313 or consent of instructor. LEC

EPHX 693 Gravitation and Cosmology (3). An overview of topics relevant to gravitation and modern cosmology: special relativity, tensor notation, the equivalence principle, the Schwarzschild solution, black holes, and Friedmann models. Cosmic black body radiation, dark matter, and the formation of large-scale structure. The idea of quantum gravity and an introduction to the current literature in cosmology. (Same as PHSX 693.) Prerequisite: PHSX 313 and MATH 320. LEC

Mechanical Engineering

Chair: Ronald L. Dougherty
 Learned Hall, 1530 West 15th St., Room 3138
 Lawrence, KS 66045-7609
 (785) 864-3181, www.engr.ku.edu/me

Mission

The department's threefold mission is to give its students an education of high quality, to generate and apply knowledge, and to serve society and the engineering profession. In support of this mission, there are one primary and two secondary objectives.

Educational Objectives

1. Graduates will be technically skilled in the principles of mechanical engineering.
2. Graduates will be successful in their chosen career paths while maintaining the highest professional and ethical standards.
3. Graduates will continue learning throughout their careers while productively contributing to their organizations and communities. They will demonstrate the attitudes and abilities of leaders who effectively adapt to our changing global society.

First- and Second-year Preparation

The following are recommended enrollments:

- First semester (17 hrs.): MATH 121, ENGL 101, ME 228, economics elective, ethics elective.
 Second semester (15 hrs.): MATH 122, ME 208, ENGL 102, PHSX 211.
 Third semester (17 hrs.): MATH 220, MATH 290, PHSX 212, ME 201, ME 312, communication elective.
 Fourth semester (15 hrs.): ME 412, ME 510, EECS 316, EECS 318, CHEM 125.

Requirements for the Bachelor of Science Degree in Mechanical Engineering

The mechanical engineering curriculum builds on the basic foundation of mathematics and physical sciences with the study of engineering applications in three primary areas:

1. Thermal-fluid sciences and design of energy systems.
2. Mechanical system design and analysis (mechanical structures, motion, and manufacturing).
3. Biomechanics and biomaterials.

Engineering science and design are integrated into the curriculum, with heavier emphasis on engineering fundamentals and analysis in the earlier semesters and increased emphasis on creative design in subsequent semesters, culminating in a capstone design course in one of four primary areas.

Each student must complete the requirements of the three general divisions of study listed below. A total of 128 credit hours is required for graduation.

Mathematics, Basic Sciences, and Computer Science (37 hours)

- Calculus and analytic geometry (MATH 121, MATH 122)
- Chemistry (CHEM 125)
- Physics (PHSX 211, PHSX 212)
- Differential equations and linear algebra (MATH 220, MATH 290)
- Computer science (ME 208)
- Numerical methods (ME 508)
- Statistics (MATH 365 or MATH 526)

General Education Component (21 hours)

- English (ENGL 101, ENGL 102)
- Economics elective (3 hours)
- Communication elective (3 hours)
- Contemporary issues elective (3 hours)
- Environmental concern elective (3 hours)
- Ethics elective (3 hours)

Engineering Sciences and Design (57 hours)

- Thermal system design (ME 312, ME 412, ME 510, ME 612)
- Mechanical design (ME 228, ME 501, ME 528, ME 628)
- Solid mechanics (ME 201, ME 311, ME 420, ME 520, ME 661)

Mechanical engineers apply their knowledge and techniques across a broad spectrum of industries and are sought by many professional firms.

KU students can access course information through Enroll & Pay, <https://sa.ku.edu>.

Visit KU online: www.ku.edu.

- Materials and manufacturing (ME 346)
- Engineering laboratory (ME 455)
- Electricity, electronics, and control systems (EECS 316, EECS 318, ME 682)
- Capstone Design (ME 641 or ME 642 or ME 643 or ME 644)

Approved electives (13 hours)

Selected from an approved list in consultation with the adviser.

Credit for ROTC Courses. Up to 7 credit hours of ROTC may be applied toward approved electives.

Credit for Foreign Language Courses. Up to 7 credit hours of foreign language may count as electives.

Combined Mechanical Engineering and Business. A student who wants to combine business with engineering may enroll in a program leading to B.S. degrees in both fields. Full-time enrollment enables the student to earn the two degrees in five years. During the first two years, the student enrolls in the School of Engineering. After that, the student enrolls simultaneously in the Schools of Business and of Engineering. A list of required courses may be obtained from the mechanical engineering department.

Professional Opportunities

Mechanical engineers use principles of mechanics and energy to do research and to develop, design, manufacture, and test tools, machines, motors, engines and other mechanical devices. They work on power-producing machines and develop power-using machines. They also work in areas such as medical activities, patent or other law, forensic engineering, and engineering sales. Mechanical engineers work in aerospace and automotive industries, design and consulting firms, manufacturing and plant operations, power generation, bioengineering firms, and petroleum and transportation industries.

● Mechanical Engineering Courses

ME 201 Statics (2). The principles of statics, with particular attention to engineering applications. Prerequisite: PHSX 211. LEC

ME 208 Introduction to Digital Computational Methods in Mechanical Engineering (3). Digital computing methods for solving mechanical engineering problems utilizing current programming languages and commercial software. Co-requisite: MATH 116 or MATH 121. LEC

ME 228 Computer Graphics (3). Introduction to graphics programs, introduction to computer aided design, familiarization with computer graphics hardware and software. LEC

ME 306 Science of Materials (3). An introductory course on materials. Emphasis is placed on structure and the relation of structure to the behavior and properties of engineering materials. This course may not be used to satisfy Mechanical Engineering requirements. Prerequisite: CHEM 125 or CHEM 184, or consent of instructor. LEC

ME 311 Mechanics of Materials (3-4). A basic treatment of stress and deformation in elastic bodies. Prerequisite: ME 201 and MATH 220. Corequisite: ME 346. LEC

ME 312 Basic Engineering Thermodynamics (3). An introduction to the concepts of heat, work, the first and second laws of thermodynamics and equations of state. These concepts are applied to flow and nonflow systems including power and refrigeration cycles. Prerequisite: PHSX 211. Corequisite: MATH 122. LEC

ME 321 Dynamics (3). Kinematics and kinetics of particles and of rigid bodies as applied to mechanical engineering problems. Introduction to mechanical vibration. Prerequisite: ME 201, MATH 220 and MATH 290. LEC

ME 346 Selection and Processing of Engineering Materials (4). Engineering materials properties and selection, manufacturing processes, and design for manufacturing. Prerequisite: CHEM 125. LEC

ME 360 Mechanical Engineering Problems (1-3). An analytical or experimental study of problems or subjects of immediate interest to a student and faculty member and which is intended to develop student capability for independent research or application of engineering science and technology. After completion of the project, a report is required. Maximum credit is three hours. Not open to students who have taken ME 361. Prerequisite: Approval of an outline of the proposed project by the instructor and department chair. IND

ME 361 Undergraduate Honors Research (1-3). Investigation of a particular mechanical engineering problem. Research will involve

defining the problem, developing a research methodology, applying the research methodology and gathering data, analyzing and interpreting the data, and presenting the results of the research. The student must have a faculty sponsor and submit a proposal in writing stating the objective of the research, the planned research method that will be used, and the method of reporting the results. Maximum credit is three hours. Not open to students who have taken ME 360. Prerequisite: Participation in the University Honors Program, consent of instructor, and approval of the chair required. IND

ME 390 Special Topics: ____ (1-5). Courses on special topics of current interest in mechanical engineering, given as the need arises. Prerequisite: Approval of instructor. LEC

ME 412 Thermal Systems (3). Application of the principles of thermodynamics to the analysis and design of thermal systems. Prerequisite: ME 312. LEC

ME 420 Mechanisms (3). Kinematic design and analysis of mechanisms composed of linkages, cams, and gears. Prerequisite: PHSX 211. LEC

ME 455 Mechanical Engineering Measurements and Experimentation (4). Lectures and laboratories on the basics of measurement, instrumentation, data acquisition, analysis, design and execution of experiments, and written and oral reports. Topics selected from heat transfer, fluid mechanics, thermodynamics, mechanics, strength of materials, and dynamics. Prerequisite: ME 208, ME 311, and Statics. Co-requisite: EECS 318, ME 520 and ME 612. LEC

ME 501 Mechanical Engineering Design Process (3). The design process of a mechanical or thermal system. Establishment of specifications and consideration of realistic constraints such as safety, codes, economic factors, reliability, oral and written communications, and other factors as they impact the design process. Prerequisite: ME 311, ME 312, and ME 228. LEC

ME 508 Numerical Analysis of Mechanical Engineering Problems (3). Introduction to numerical methods for solution of mechanical engineering problems by use of digital computers. Prerequisite: ME 208 or equivalent, MATH 220 and MATH 290. LEC

ME 510 Fluid Mechanics (3). An introduction to the mechanics of fluid flow. The principles of conservation of mass, momentum, and energy are developed in differential and integral form. Laws of dimensional analysis and similitude are presented as the basis for empirical correlations. Engineering applications include: calculation of hydrostatic forces on submerged objects, analysis of flow and pressure loss in piping systems, estimation of aerodynamic lift and drag, and performance characteristics of pumps and fans. Prerequisite: ME 201 and ME 312 or equivalents. LEC

ME 512 Introduction to Thermal Engineering (3). An introduction to thermodynamics, fluid dynamics and heat transfer for non-majors. This course may not be used to satisfy Mechanical Engineering requirements. Prerequisite: PHSX 211 and MATH 220. LEC

ME 520 Dynamics of Machinery (3-4). Kinetic design and analysis of mechanisms. Mechanical vibration. Prerequisite: ME 420, ME 201, MATH 220, and MATH 290. LEC

ME 528 Mechanical Design I (3). Design of mechanical components and systems. Prerequisite: ME 311. LEC

ME 590 Special Topics: ____ (1-5). Courses on special topics of current interest in mechanical engineering, given as the need arises. Prerequisite: Approval of instructor. IND

ME 612 Heat Transfer (3). An applied study of conductive, convective, and radiative heat transfer mechanisms in solid and fluid systems. Engineering applications include solid conduction, free and forced convection in fluids, thermal radiation and heat exchangers, evaporators, and furnaces. Prerequisite: MATH 220 and ME 312. Corequisite: ME 510. LEC

ME 627 Automotive Design (3). Basic concepts of automotive design and manufacture. Primary focus of course on vehicle design and performance. Design is subdivided into vehicle components of frame, suspension, front and rear axle, steering power train, front and rear wheel drive, and braking. Integration of these ideas into a vehicle design project with analysis of its performance culminates the course. Prerequisite: Permission of instructor. LEC

ME 628 Mechanical Design II (3). Design of mechanical components and systems. Corequisite: ME 520 ME 528. LEC

ME 633 Basic Biomechanics (3). Provides an overview of musculoskeletal anatomy. Linear and angular dynamics of human movement, energy expenditure, and power required to perform a given activity. Two-dimensional joint forces and torques from kinematic data for body segments and force plate data. Tissue properties, appropriate constitutive models and determination of stresses and strains in tissues and structures under normal loading conditions. Students will select and work on biomechanics design projects or independent study projects. Prerequisite: ME 311 and ME 520 or equivalent. LEC

ME 636 Internal Combustion Engines (3). Study and analysis of internal combustion engine physical phenomena dynamic function, components, and system design. Emphasis on spark ignition and compression ignition engine analysis. Performance, current technology, thermody-

namics, fluid-mechanics, combustion products and pollution, fuels and lubrication, and mechanical design. Prerequisite: ME 412. LEC

ME 637 Steam Power Plants (3). A study of steam power plant equipment including thermodynamic analysis, design and performance of modern steam generators, prime movers, and auxiliaries. Prerequisite: ME 412 or permission of instructor. LEC

ME 640 Design Project (1). Planning for a capstone design project. Development of a formal project proposal is required. Must be used with two credit hours of ME 641 or ME 644 in the subsequent semester to complete the capstone design requirements. Prerequisite: Approval of instructor. LEC

ME 641 Design Project Option A (2-3). Design and development of a mechanical or thermal/fluid system. An individual or group report that includes designs, analysis/testing, drawings, and/or schematics is required. Establishment of specifications and consideration of realistic constraints such as safety, economic factors, design impact, aesthetics, and reliability are required. Prerequisite: ME 455, ME 501, and ME 628. LEC

ME 642 Design Project Option B (3). Manufacturing and testing of a mechanical system designed and developed in ME 627 - Vehicle Design. A group report with individual assignments which details the manufacturing procedures and testing procedures and results is required. A completed, working project with a design file documenting all aspects of the project development must be submitted. Prerequisite: ME 627, ME 501 and ME 628. Corequisite: ME 412 and ME 455. LEC

ME 643 Design Project Option C (3). Design and development of a mechanical system related to biomechanics that has been investigated in ME 633 - Basic Tissue Mechanics and Biodynamics. An individual or group report that includes designs, analysis/testing, and drawings and/or schematics is required. Establishment of specifications and consideration of realistic constraints such as safety, economic factors, design impact, aesthetics, and reliability are required. Prerequisite: ME 455, ME 501, ME 628, and ME 633. LEC

ME 644 Design Project Option D (2-3). Design and development of a thermal or fluid system. A group report that includes design, analysis/testing, drawings, and/or schematics is required. Establishment of specifications and consideration of realistic constraints such as safety, economic factors, design impact, aesthetics, and reliability are required. Prerequisite: ME 412, ME 455, and ME 501. Corequisite: ME 628. LEC

ME 656 Thermal System Design (3). Design of thermal fluid systems and components by application of physical principles drawn from the fields of thermodynamics, fluid mechanics, and heat transfer. Optimal selection of parameters subject to physical, economic, and social considerations is treated. Prerequisite: ME 412 and ME 612. LEC

ME 661 The Finite Element Method for Stress Analysis (3). Introduction to the finite element method for solid mechanics. Finite element formulations for plane stress, plane strain, beams, axisymmetric solids, shells, and 3D solids. Assembly and solutions of finite element equations, computations of stresses and strains and post processing of results for further use in the design process. Finite element modeling techniques and laboratory sessions for solving actual problems. Prerequisite: ME 311 and MATH 290. LEC

ME 682 Control Systems (2-3). An introduction to the modeling, analysis, and design of linear control systems. Topics include mathematical models, feedback concepts, state-space methods, time response, system stability in the time and transform domains, design using PID control and series compensation, and digital controller implementation. Prerequisite: ME 520. LEC

ME 696 Design for Manufacturability (3). Tools to incorporate manufacturing and life-cycle concerns into the design of products. Prerequisite: ME 501 or equivalent. LEC

ME 702 Mechanical Engineering Analysis (3).

ME 708 Microcomputer Applications in Mechanical Engineering (2-3).

ME 711 Bearings and Bearing Lubrication (3).

ME 712 Advanced Engineering Thermodynamics (3).

ME 720 Advanced Dynamics of Machinery (3).

ME 733 Gas Dynamics (3).

ME 740 Mechanical Vibrations (3).

ME 750 Biomechanics of Human Motion (3).

ME 751 Experimental Methods in Biomechanics (3).

ME 753 Bone Biomechanics (3).

ME 757 Biomechanical Systems (3).

ME 760 Biomedical Product Development (3).

ME 763 Introduction to Composite Materials (3).

ME 765 Biomaterials (3).

ME 770 Conductive Heat Transfer (3).

ME 774 Radiative Heat Transfer (3).

ME 780 Kinematic Synthesis of Mechanisms (2-3).

ME 790 Special Topics: ____ (1-5).

ME 796 System Design and Analysis (3-5).

School of Fine Arts

Steven K. Hedden, Dean
 Murphy Hall, 1530 Naismith Dr., Room 446,
 Lawrence, KS 66045-3102, <http://arts.ku.edu>

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Photo, page 322:
The Marching Jayhawks perform in Memorial Stadium on KU's Traditions Night at the beginning of fall semester.

School of Fine Arts

Steven K. Hedden, Dean

**Murphy Hall, 1530 Naismith Dr., Room 446
Lawrence, KS 66045-3102**

finearts@ku.edu or <http://arts.ku.edu>

Phone: (785) 864-3421, Fax: (785) 864-5387

**Degrees offered: B.A., B.A.E., B.M., B.M.E., B.M.E.—
Music Therapy, B.F.A., M.A., M.F.A., M.M.,
M.M.E., M.M.E.—Music Therapy, D.M.A., Ph.D.**

The University of Kansas is an accredited institutional member of the National Association of Schools of Music and a member of the National Association of Schools of Art and Design. The entrance and graduation requirements in this catalog conform to the published guidelines of those organizations.

The school acquaints students with the fine arts as an important field of a liberal culture, either as members of a discriminating public or as trained practitioners. It prepares students for careers in art, design, dance, and music and promotes scholarship and research in the arts. It offers curricula for teachers of music and art in public schools and institutions of higher education and special degree curricula for training music therapists.

The school makes a substantial contribution to the cultural life of the campus, community, and state by providing a center for the best in music and dance performance and the exhibition of works of art and design.

Admission

First-year students may enter the school directly. Students may transfer to the school from other institutions or from other KU schools if they have B averages or higher and are eligible to return to the college or university last attended. Other students can be admitted only with the permission of the dean.

Send applications to the Office of Admissions and Scholarships. See Undergraduate Admission and Scholarships in the General Information chapter.

All Music Majors. Students who wish to major in music must audition. All music students approved for admission to the School of Fine Arts are admitted contingent upon demonstration by audition of satisfactory level proficiency in their area of applied music.

Restrictions on Admission

By permission of the Kansas Board of Regents, application for admission or transfer to the Departments of Art and Design may be refused if the available instructional space does not allow the addition of more students. Apply as early as possible.

Transfer Students

Only grades of C or higher are accepted in transfer credit toward degrees offered by the School of Fine Arts.

Advanced Standing in Music and Dance. Students who wish to transfer performance credit from another institution toward any music or dance degree at KU must validate this credit by audition. Transfer students should contact division directors to arrange an audition.

Advanced Standing in Art and Design. Transfer students with fewer than 12 hours in studio courses equivalent to Art and Design Foundations enroll in the Foundations program. Students who wish to transfer 12 or more credit hours in art and design studio courses may be requested to submit examples of their work to the chair for evaluation before enrollment. Portfolios should represent all college-level studio experience and must contain original examples of drawings and designs. Paintings, sculpture, and other three-dimensional work should be submitted as photographs. Applicants with a lapse of four or more years since their last full-time enrollment may not be able to apply studio credits toward advanced standing.

Visit Our Web Site

The School of Fine Arts Web site, <http://arts.ku.edu>, has current information about the school. Visit the Web site for information about Fine Arts programs, facilities, services, resources, policies, and procedures, as well as current information about the school's many active student organizations.

Tuition, Fees, and Scholarships

For information about KU tuition, fees, and financial aid, see the General Information chapter of this catalog or visit www.registrar.ku.edu/fees. Tuition and fees are set by the Board of Regents and are subject to change.

Financial Aid

Academic Scholarships are available through the Office of Admissions and Scholarships. The Office of Student Financial Aid administers grants, loans, and need-based financial aid. See Financial Aid in the General Information chapter of this catalog.

Merit Scholarships in Music, Dance, Art, and Design are also available. Apply to the appropriate department.

Advising

Advisers are faculty members from the major areas of study the students have elected to pursue. Additional help is available in the departmental offices.

Photo, page 324:
A student in the Foundations program works on a two-dimensional design assignment in Introduction to Design I.

University Honors Program

The School of Fine Arts encourages all qualified students to participate in the University Honors Program. See University Honors Program under College of Liberal Arts and Sciences: General Requirements. The Department of Art offers honors courses in drawing, painting, printmaking, and sculpture for art majors.

Facilities

The 130,000-square-foot **Art and Design Building** houses the art and design departments, including studios, offices and the 2,100-square-foot **Art and Design Gallery**, featuring new exhibitions every two weeks. Each major art and design program has spacious work areas and a wide range of equipment, from traditional to the newest digital technology. Students have access to a traditional **Photography Lab, Mac and PC Computer Labs, a Digital Media Lab**, and satellite computer labs. There is also a 6,400-square-foot **Common Shop** that includes woodworking equipment, a plastic vacuum former, metal-working equipment, and classroom space. All labs and the shop have technical support staff.

There are three large, well-equipped **painting studios**. The **print studios** consist of 8,000 square feet of work space and a dedicated computer lab for serigraphy, lithography, and intaglio. The **intaglio studio** has five presses and a separate acid room. The **lithography studio** has three presses and various sizes of stones. The **serigraphy studio** has 12 printing stations, a separate wash-out room, and a large exposure unit, available for a variety of photo-based processes. The **sculpture studio** is divided into five general work areas with appropriate equipment: woodworking, metal fabrication, foundry, an open courtyard, and individual studios. The foundry contains equipment necessary for casting with a variety of kilns, three gas-fired furnaces, and an overhead crane. There is an induction furnace with a lift-swing unit for bronze and a tilt box unit for iron and steel.

The **Center for Design Research** is a resource for testing design research for industry partners and has involved faculty and students from industrial design and interior design. Corporate-sponsored projects are supervised by design faculty and executed by graduate students and advanced undergraduates selected through portfolio review. This facility has become a connection between the academic and professional worlds of design as well as a focus for collaborations among applied design areas and other KU units including special education, aerospace engineering, and business.

The 3,800-square-foot **Metalsmithing/Jewelry** studio has six rooms with separate areas for soldering, smithing, plating/electro-forming, a finishing room, casting, gas and TIG welding, and enameling. Computer software is available for students to develop three-dimensional jewelry models. The **Ceramics** area includes 5,300 square feet of studio space in the Art and Design building and separate west-campus Chamney barn facilities. Kilns include salt, soda, cross draft wood, anagama wood fired, raku, an electric test kiln, and several kinds of gas and electric kilns. **Textile Design** has separate weaving, screen-printing, sewing, and dye areas. The weaving studios are equipped with four-, eight-, and 16-harness floor looms and two 16-harness AVL compu-dobby looms.

The sewing area includes traditional machines, sergers, and a computer-aided embroidery machine. The textile computer lab offers jacquard weaving CAD software and other weaving and graphics programs.

The **Helen Foresman Spencer Museum of Art** houses the only comprehensive art collection in Kansas. Collections are particularly noteworthy in medieval art, 17th- and 18th-century German and Austrian painting, sculpture, American painting, prints, American photography, Japanese art of the Edo period, textiles (especially quilts), and decorative arts. Spencer Museum sponsors exhibitions, lectures, films, workshops, and activities that support curricular instruction in the arts. The museum houses galleries and offices, an auditorium, the Kress Foundation Department of Art History, and the **Murphy Library of Art and Architecture**.

Murphy Hall houses the Department of Music and Dance, with offices for faculty members in applied music, music theory and composition, musicology, opera, and ensembles. **Crafton-Preyer Theatre**, seating 1,188, provides a venue for plays, operas, musical theatre shows, and concerts. **William Inge Memorial Theatre** is an intimate black-box facility with seating for up to 125, for plays and small opera productions. **Swarthout Recital Hall**, seating 340, is dedicated to faculty and student solo and chamber music presentations and occasional opera productions. The **Baustian Theatre**, a black-box facility for opera and musical theatre, seats 125. Murphy Hall also houses classrooms, practice rooms, rehearsal halls, storage facilities for instruments and sheet music, the **Electronic Music Studio**, and an electronic keyboard laboratory.

The **Kansas Center for Music Technology** promotes the development and application of current technologies in music instruction, research, and creative projects. Its Computer Center contains 32 fully networked multimedia workstations. It has a library of commercially available software including basic productivity and Internet software; music notation and sequencing, ear-training, CD-ROMs, and drill design software; and digital editing software for audio, video, multimedia, and Web authoring. KCMT helps faculty members and students develop innovative new software.

The **Thomas Gorton Music and Dance Library** houses more than 111,000 scores, books, recordings, videos, microforms, and serials, and has the leading music collection in the Great Plains. The Joe and Joyce Hale Media System allows remote listening and viewing from 30 locations, including 328 media carrels, the seminar room, and the group study room. Media carrels have remote controls, MIDI music keyboards, mini-disk recorders, computers, and video monitors.

The **Music Education and Music Therapy Complex** contains a model music education classroom, a general music instruction classroom, large and small therapy clinical spaces, three research spaces, faculty offices, and the **Psychology and Acoustics of Music Laboratory**. The **Music Therapy Clinic**, a clinical training and research facility, is housed in Murphy Hall and Dole Human Development Center.

The **Lied Center of Kansas** is a 2,020-seat performing arts hall, the venue for the **Lied Center Series**. It also presents Department of Music and Dance productions, Student Union Activities shows, and university and community events. The stage features a 56-foot-wide proscenium opening, resilient wood floor, coun-

First-year students may enter the School of Fine Arts.

The University Symphony Orchestra, Wind Ensemble, Symphonic Band, University Band, Marching Jayhawks, Chamber Choir, Concert Choir, University Singers, Women's Chorale, and Men's Glee Club, are open to all students through auditions.

KU's art and design program is accredited by the National Association of Schools of Art and Design.

terweighted rigging system, and ample wing space. There is a full complement of backstage support areas.

The **Dane and Polly Bales Organ Recital Hall** is acoustically designed for the teaching and performance of organ music. It has seating for 200 and is attached to the Lied Center main lobbies at two levels. It houses a 45-stop mechanical key-action (electric stop-action) organ built by Hellmuth Wolff et Associés, one of the finest builders of organs in the world. The hall is available to organ students for practice, lessons, and recitals. Its aesthetics are enhanced by three magnificent stained glass windows designed by Peter Thompson, former dean of Fine Arts.

Performing Organizations

The University Symphony Orchestra performs works from the standard symphonic repertoire on campus and occasionally on tours. It combines with choral ensembles to present oratorios or other large works and assists in musical theatre productions and opera. The Wind Ensemble presents four or more concerts annually and tours internationally. The Symphonic and University Bands are active each semester. The KU Jazz program includes three jazz ensembles, two jazz choirs, and several ensembles. The Marching Jayhawks are part of the pageantry at football games. The Basketball Band, Pep Band, and bands for other sports also perform.

Recent opera and musical theatre productions have included *The Mikado*, *The Marriage of Figaro*, *Albert Herring*, *Candide*, *Falstaff*, *Strawberry Fields*, *The Magic Flute*, and *Face on the Barroom Floor*.

The Chamber Choir, Concert Choir, and Men's Glee Club are select groups of singers who perform concerts on campus, tour, and participate in combined choral and orchestral presentations. Students are eligible through audition for University Singers and Women's Chorale. The Collegium Musicum specializes in early music, both vocal and instrumental, using KU's collection of replicas of early instruments. The Kansas Brass Quintet and Kansas Woodwinds, are faculty groups that present numerous concerts.

The University Dance Company performs a varied repertoire of ballet, modern, and jazz dance. It presents two major programs on campus each year as well as numerous presentations on tour.

Art Exhibitions

A number of exhibitions are sponsored by the Departments of Art and of Design. These are shown in department galleries and the Kansas Union. Each year, there are exhibitions of work by students in the school, representing the disciplines of art and design.

Courses for Nonmajors

Students in other KU schools may enroll in fine arts courses for credit, subject to the availability of instructional time, with the permission of the chair of the department in which the course is offered.

Students in the College of Liberal Arts and Sciences not majoring in art may present as many as 25 hours of credit in fine arts. Dance courses are available to all interested and qualified students regard-

less of major. Minors in music and dance are offered for students in other disciplines. Students in the College not majoring in music may elect an appropriate introductory course (MUSC 136, MUSC 298, MUSC 301, MUSC 302, MUSC 336, MUSC 394, MUS 140, or MUS 340). Most degree programs accept up to 6 hours of electives in music ensembles and performance.

Junior/senior credit in applied music involves a prerequisite of 4 hours of university credit in sequence in the field concerned.

Regulations

For information about University of Kansas regulations, see the General Regulations chapter of this catalog.

Degrees

The degree of Bachelor of Music is granted with majors in bassoon, clarinet, double bass, euphonium, flute, French horn, harp, musicology, oboe, organ, organ and church music, percussion, piano, saxophone, theory, composition, trombone, trumpet, tuba, viola, violin, violoncello, and voice.

The degree of Bachelor of Arts in Fine Arts is granted with concentrations in applied music, musicology, music theory, music with an outside minor/concentration, dance, art, and design (crafts).

The degree of Bachelor of Fine Arts is granted with majors in ceramics, dance, design theory, expanded media, history of art, industrial design, interior design, metalsmithing/jewelry, painting, printmaking, sculpture, textile design, theatre design, theatre and voice, and visual communication.

The degree of Bachelor of Music Education is granted with majors in music education or music therapy.

The Bachelor of Art Education offers a major in art education.

Requirements for Graduation

Degrees from the School of Fine Arts are conferred on candidates who have satisfactorily completed 124 to 131 credit hours for the B.A., B.M., and B.F.A. degrees, including required subjects. Exceptions are the B.F.A. in industrial design, which requires 154 hours; the B.M.E. in music education, which requires a minimum of 149 hours (including student teaching and internship); the B.M.E. in music therapy, which requires 138 hours (including clinical practicum and internship); and the B.A.E. in visual art education, which requires a minimum of 145 hours. The B.A.E. degree requires additional hours in student teaching, internship, and graduate credit for Kansas licensure.

Forty-five credit hours must be in junior/senior-level courses, numbered 300 and above. A 2.0 grade-point average, both cumulative and in KU courses, is required for graduation. Four hours of the total in each case except B.M.E. and B.A.E. degrees may be in physical education activity courses. Art appreciation courses are not accepted toward art history requirements for students majoring in any field of art or design. HA 100 and HA 300 are not accepted toward any requirement for students majoring in any field of art or design. Variations to program requirements may be petitioned to Music and Dance or Art and Design committees on undergraduate studies for possible approval.

English. Nine hours of English composition and literature, consisting of ENGL 101, ENGL 102, and one course from ENGL 203, ENGL 209, ENGL 210, or ENGL 211, are required of all students except B.M.E. and B.A.E. students and those whose achievement in placement examinations warrants initial placement in more advanced English courses. Students must enroll continuously in ENGL 101 or ENGL 102, as appropriate, until completed. When the requirement is reduced, students must substitute these hours in liberal arts electives.

Remedial Courses. Remedial courses listed in the catalog and *Timetable of Classes*, www.timetable.ku.edu, are numbered below 100. Such courses include, but are not limited to, ENGL 050 and MATH 002. Such courses do not count toward graduation in the School of Fine Arts and may not be counted as distribution courses.

ART AND DESIGN

<http://arts.ku.edu>

Undergraduate degrees offered:

- B.A. in Fine Arts in Art and Design.
- B.F.A. in Art, Design, and History of Art.
- B.A.E. in Visual Art Education.

Advising

Students admitted to work toward B.A., B.A.E., or B.F.A. degrees are advised in the Foundations Program for two semesters. After a student has completed 12 hours of foundations courses, he or she is advised by faculty members in the major field. Check sheets describing each program in complete detail are available from the Art and Design office, 300 Art and Design Building, or online. Information on requirements for theatre design is available from the Department of Theatre and Film. For history of art, information is available from the Kress Foundation Department of Art History. Students are encouraged to seek advice from any faculty member in a specific area of interest.

Advanced Placement in Art

Students who score 3, 4, or 5 on the CEEB Advanced Placement Examination may receive up to 3 credit hours in art studio electives. Advanced placement credit does not exempt students from foundations requirements.

Advanced Placement in Design

If a student has completed at least two years of high school work in ceramics, metalsmithing/jewelry, or textile design (weaving or printing and dyeing), he or she may, in the first year, enroll in upper-level metalsmithing/jewelry or ceramics or textile design (weaving or printing and dyeing) courses with the permission of the instructor. These may be taken concurrently with foundations courses. The number of credit hours required for graduation is not decreased.

First-year Preparation: Foundations

Coordinator, Foundations: Sara Muzzy
300 Art and Design, (785) 864-4401

A minimum of 12 hours in foundations courses is required before a student may enter a major program for a B.A. or B.F.A. degree. Of the 12 hours, 6 must be taken in AFND 101-AFND 102 and 6 must be in DFND 103-DFND 104. Specified prerequisites must be completed before enrollment in advanced art or design studio courses. First-year students intending to pursue a major course of study leading to a B.A.

degree, a B.F.A. degree, or a B.A.E. degree enroll for two semesters in the Foundations Program.

The following foundations enrollment should be followed for two semesters (15 hours each semester):

Art foundations (AFND 101, AFND 102)	6
Design foundations (DFND 103, DFND 104)	6
English (ENGL 101, ENGL 102)	6
History of art (HA 150, HA 151)	6
¹ Electives	6

¹Entering students planning to major in industrial or interior design should enroll in a required mathematics or drawing systems course.

Bachelor of Arts in Fine Arts in Art and Design Degree Requirements

A Bachelor of Arts in Fine Arts degree is offered with concentrations in art and in design (ceramics, metalsmithing/jewelry, or textile design). A total of 124 hours is required for the degree.

Liberal Arts and Sciences Requirements. A minimum of 83 to 84 credit hours in liberal arts and sciences is required.

ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
Mathematics (MATH 101 and MATH 105 or MATH 111 or higher).....	6
Oral communication (COMS 130 or COMS 150 or COMS 230 or PHIL 148)	3
Western civilization	6
Foreign language (16 hours in one language)	16
History of art (HA 150, HA 151 plus HA electives)	12
<i>Principal Course Distribution</i> (31-32 hours)	
Humanities (three courses)	9
Social sciences (three courses)	9
Natural sciences/mathematics (three courses, to include a laboratory science)	10-11
Non-Western culture	3

Art Concentration. Studio courses (36 hours)

AFND 101 and AFND 102 Introduction to Drawing I and II	6
DFND 103 Introduction to Design I	3
Art (to include one course in each of the following areas: painting, sculpture, and printmaking)	24
Elective in art and design	3
<i>General electives</i> (4-5 hours)	3

Design Concentration (Ceramics, Metalsmithing/Jewelry, or Textile Design). *Studio courses* (39 hours)

AFND 101 and AFND 102 Introduction to Drawing I and II	6
DFND 103 and DFND 104 Introduction to Design I and II	6
Design	24
Elective in art and design	3
<i>General electives</i> (1-2 hours)	3

Bachelor of Fine Arts Degree Requirements

Art

Chair

Art and Design Bldg., 1467 Jayhawk Blvd., Room 300
Lawrence, KS 66045-7531
(785) 864-4401, <http://arts.ku.edu>

The Department of Art offers the B.F.A. in art with a concentration in painting, printmaking, sculpture, or expanded media. In addition to 6 hours of art foundations and 6 hours of design foundations, a minimum of 46 hours in departmental courses is required, including 10 hours (two semesters) of directed study and a professional activities seminar. All students earning the B.F.A. in art may substitute up to 6 hours in photography to meet departmental course requirements. Students earning the B.F.A. in sculpture may substitute up to 6 hours in ceramics or metal design (metalsmithing/jewelry) with permission of the department.

Course work for the B.F.A. should be distributed as follows: A total of 64 hours in studio courses is required,

Students in art and design must take foundations courses before entering a major program.

The Department of Art offers the B.F.A. in art with a concentration in painting, printmaking, sculpture, or expanded media.

Spencer Museum of Art is the only comprehensive collection in the state of Kansas. Admission is free.

**Gallery hours:
Tues., Wed., Fri.,
and Sat.: 10 a.m.
to 5 p.m.
Thurs.: 10 a.m. to
9 p.m.
Sun.: noon to 5 p.m.
Mon.: closed**

including 12 hours in foundations, 46 hours of departmental courses, and 6 hours of studio electives. A minimum of 3 hours each in drawing, painting, printmaking, and sculpture must be included in the 46 hours. The department regularly offers theory and criticism, performance, installation, and special topics courses. In the College of Liberal Arts and Sciences, 42 hours are required, including 15 hours of history of art (6 hours of HA 150 and HA 151, 6 hours of 20th-century art history, and 3 hours of non-Western art history), English composition and literature (9 hours: ENGL 101, ENGL 102, and one course from ENGL 203, ENGL 209, ENGL 210, or ENGL 211), humanities (3 hours), social sciences (3 hours), natural sciences or mathematics (3 hours), and 9 hours of College electives. The remaining 18 hours may be taken as free electives.

The art department reserves the right to retain examples of student work.

Design

Chair: Gregory Thomas
 Art and Design Bldg., 1467 Jayhawk Blvd., Room 300
 Lawrence, KS 66045-7531
 (785) 864-4401, <http://arts.ku.edu>

The Department of Design offers the B.F.A. in ceramics, design theory, industrial design, interior design, metalsmithing/jewelry, textile design, theatre design, and visual communication, and the B.A.E. in visual art education. Six of the programs require 124 to 128 credit hours and normally can be completed in eight semesters (four years). The industrial design program consists of 154 credit hours and normally requires 10 semesters (five years). The visual art education program requires 145 credit hours and can be completed in eight semesters with some summer course work.

A student may not take more than 6 hours from any one faculty member in any one semester except with the consent of the chair. A student may not enroll simultaneously in two 6-hour sequential courses.

Liberal Arts and Sciences Requirements. All design majors, except majors in industrial and interior design, must take the following 39 hours of courses in the College of Liberal Arts and Sciences:

- ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211 (9 hours)
- Humanities courses (6 hours)
- Social sciences courses (6 hours)
- Natural science and/or mathematics courses (6 hours)
- History of art: HA 150, HA 151, plus 6 hours of history of art (12 hours)

Ceramics

A total of 124 hours is required for the degree, including 66 hours in art and design, as follows:

Foundations (12 hours)	
AFND 101 and AFND 102 Introduction to Drawing I and II	6
DFND 103 and DFND 104 Introduction to Design I and II	6
Advanced Basic Design Studies Courses (12 hours)	
ABDS 201 Color (3) or ABDS 202 Photography I (3)	3
ABDS 208 Ceramics I	3
ABDS elective	3
SCUL 253 Sculpture I (3) or	
SCUL 349 Special Problems in Metal Casting (3)	3
Major Studies Courses: Clay (24 hours)	
CER 301 Ceramics II	3
CER 302 Ceramics III	3
CER 401 Ceramics IV (two semesters)	12
CER 504 Kilns	3
CER 505 Clay and Glaze Formulation	3

Electives in Art and Design (18 hours). Must include a 3-hour, 200-level ABDS course in metals or textiles, or SCUL 349 Special Problems in Metal Casting.

College and Professional Courses (58 hours). In addition to art and design, 58 hours are required in College and professional courses.

Liberal Arts and Sciences requirements (see above)	39
Electives (no art or design)	10
General electives	9

Industrial Design

A total of 154 hours is required for the degree, including 80 hours in art and design, as follows:

Foundations (15 hours)	
AFND 101 and AFND 102 Introduction to Drawing I and II	6
DFND 103 and DFND 104 Introduction to Design I and II	6
DBS 111 Drawing Systems I	3
Advanced Basic Design Studies (9 hours)	
ABDS 204 Materials Workshop	3
ABDS 306 Basic Visual Communication	3
ABDS 212 Drawing Systems II	3
Professional Core (13 hours)	
INDD 313 Visual Presentation	3
INDD 508 Materials and Processes	3
INDD 510 Human Factors in Design	4
INDD 512 Methods in Design	3
Major Studies (31 hours)	
INDD 384, INDD 388, INDD 646, and INDD 648 Industrial Design I, II, III, and IV	12
INDD 578 Problems in Industrial Design:	6
INDD 478 Internship (3) or INDD 578 or INDD 678 Problems (3)	3
INDD 678 Advanced Problems in Industrial Design	3
INDD 680 Thesis	6
INDD 655 Portfolio	1

Electives in Art and Design (12 hours)

Plus the following Liberal Arts and Sciences requirements, distributed as follows:

Liberal Arts and Sciences Requirements (32 hours)	
English: Basic English requirement and ENGL 362 Foundations of Technical Writing (3) or COMS 130 Speaker-Audience Communication (3) or COMS 150 Personal Communication (3)	12
Humanities courses (H)	6
Natural sciences and/or mathematics: MATH 115 Calculus I, PHSX 114 College Physics I	7
ECON 104 Introductory Economics and social sciences elective (S)	7

College and Professional Courses (18 hours)

BLAW 301 Legal Aspects of Business	3
JOUR 433 Strategic Communications	3
HA 150 and HA 151 Art History I and II	6
Electives in history of art	6

Area of Concentration (12 hours)

Twelve hours in one of the following areas: Humanities (H), non-Western culture (NW), natural sciences and mathematics (N), social sciences (S), architecture, business, or engineering. At least 6 hours at the 300 level are required.

General Electives (12 hours)

Interior Design

A total of 128 hours is required for the degree, including 68 to 74 hours in art and design. Two degree tracks are available. One leads to practice in interior design. The second prepares a student both for practice and for possible entry into the School of Architecture and Urban Design. Requirements are as follows:

Foundations (15 hours)	
AFND 101 and AFND 102 Introduction to Drawing I and II	6
DFND 103 and DFND 104 Introduction to Design I and II	6
DBS 111 Drawing Systems I	3
Advanced Basic Design Studies Courses (9-12 hours)	
ABDS 201 Color	3
ABDS 204 Materials Workshop (practice option only)	3
ABDS 212 Drawing Systems II	3
ABDS 306 Basic Visual Communication	3
INDD/INTD Professional Core (7 hours)	
INDD 313 Visual Presentation	3
INDD 510 Human Factors in Design	4
Major Studies (31 hours minimum)	
INTD 205 Introduction to Interior Design	4
INTD 302 Fundamentals of Interior Design	5
INTD 503 Interior Programming	3
INTD 504 Interior Planning and Design	3
INTD 505 Interior Specifications	3
INTD 506 Advanced Interior Planning and Design	3
INTD 535 Portfolio	1

1INTD 606 and INTD 608 Thesis I and II	6
1INTD 607 Professional Observation or 1ADS 570 Design Seminar (3) or	3
1INTD 609 Interior Design Internship	13
Related Requirements (6 hours)	
TD 202 Fiber Properties Lecture	3
1INDD 578 Problems in Industrial Design: ____ (3) or	
1INDD 678 Advanced Problems in Industrial Design (3) or	
1INDD 512 Methods in Design (3)	3
1INTD 609 may be taken with permission in lieu of INDD 578 (or INDD 678 or INDD 512), INTD 606, INTD 608, INTD 607 (or ADS 570), and INTD 535.	

Studio Electives (0-3 hours)	
Art or design studio elective (practice option only)	3

Plus the following Liberal Arts and Sciences requirements, distributed as follows:

Liberal Arts and Sciences Requirements (21-25 hours)	
English: Basic English requirement and ENGL 362 Foundations of Technical Writing (3) or COMS 150 Personal Communication (3) ..	12
Humanities course (H)	3
MATH 101 Algebra (practice option only)	3
MATH 115 Calculus I (architecture option only)	3
PHSX 114 College Physics I (architecture option only)	4
Social sciences course (S)	3

College and Professional Courses (30 hours)	
IST 301 Introduction to Business Computing (practice option only; students may substitute EECS 128 for IST 301)	3
Architecture:	10-16
ARCH 103 Introduction to Architecture (3)	
ARCH 321 Building Construction I (2)	
ARCH 620 Statics for Architects (architecture option only) (2)	
ARCH 621 Strength of Materials (architecture option only) (2)	
EECS 128 Introduction to Computer-based Information Systems (architecture option only) (3)	
ARCH 526 (1), ARCH 527 (1), and ARCH 528 (1) (fall only)	
Technical elective: ARCH 322 or ARCH 423 or ARCH 736 or ARCE 561 or ARCE 642 or ARCE 675 or consent of adviser (practice option only)	2-3
HA 150 and HA 151 Art History I and II	6
History of architecture	6

General Electives (7-8 hours)

Metalsmithing/Jewelry

A total of 124 hours is required for the degree, including 69 hours in art and design, as follows:

Foundations (12 hours)	
AFND 101 and AFND 102 Introduction to Drawing I and II	6
DFND 103 and DFND 104 Introduction to Design I and II	6
Advanced Basic Design Studies Courses (9 hours)	
ABDS 211 Jewelry	3
ABDS electives	6
Major Studies (36 hours)	
METL 301 Metalsmithing	3
METL 302 Professional Practices (3) or	
INDD 313 Visual Presentation (3)	3
METL 360 Holloware	3
METL 362 Metalsmithing (6) and METL 364 Enameling (6) ..	12
METL 501 Seminar	3
METL 515 Advanced Metals (6, two semesters)	12

Electives in Art and Design (12 hours). Must include a 3-hour, 200-level ABDS course in textiles or ceramics.

College and Professional Courses (55 hours). In addition to art and design, 55 hours in College and professional courses are required.	
Liberal Arts and Sciences requirements	27
History of art (HA 150 and HA 151)	6
History of art electives	6
Electives (no art or design)	10
General electives	6

Textile Design

A total of 124 hours is required for the degree, including 69 hours in art and design, as follows:

Foundations (12 hours)	
AFND 101 and AFND 102 Introduction to Drawing I and II	6
DFND 103 and DFND 104 Introduction to Design I and II	6
Advanced Basic Design Studies (15 hours)	
ABDS 214 Introduction to Weaving	3
ABDS 215 Textile Handprinting and Resist Processes	3
ABDS 313 Fiber Forms	3
ABDS 316 Screenprinting Textiles	3
ABDS elective	3

Major Studies (18 hours)

Intermediate studies selected from the following:	6-12
TD 301 Weave Structures (3)	
TD 302 Directed Study in Weaving (3)	
TD 403 Directed Study in Textile Printing (3)	
TD 404 Problems in Printing and Dyeing (3)	
Advanced studies selected from the following:	9-12
TD 515 Senior Studio I (3-6)	
TD 520 Senior Studio II (3-6)	

Electives in Art or Design (24 hours). Must include a 3-hour, 200-level ABDS course in ceramics, metals, or photography and VISC 520 Hallmark Symposium Series (2).

College and Professional Courses (55 hours). In addition to art and design, 55 hours of College and professional courses are required.

Liberal Arts and Sciences core requirements	27
History of art (HA 150 and HA 151)	6
TD 504 History of Textiles, Lecture	3
*History of art elective	3
Electives (no art or design)	7
General electives	9
*May substitute ART 898 Special Topics: Studio Theory and Criticism with permission from your adviser/instructor	

Theatre Design

The program leading to the B.F.A. degree in theatre design is offered cooperatively by the School of Fine Arts and the Department of Theatre and Film.

First-year Preparation. All entering first-year students enroll in the Foundations Program.

Requirements for the B.F.A. Major. A total of 124 hours is required, of which 75 must be in major program courses, 19 in general electives, and 30 hours in CLAS courses, distributed as follows:

Foundations—Art and Design (12 hours)

Core Theatre Courses (30 hours)

TH&F 100 Introduction to the Theatre (3) or TH&F 106 Acting I (3) ..	3
TH&F 215 Approaching Design for Theatre and Film	3
TH&F 216 Scenic Production	2
TH&F 220 Costume Production	2
TH&F 224 Lighting Production	2
TH&F 308 Script Analysis	3
TH&F 508 Fundamentals of Directing	3
TH&F 520 History of Period Style I	3
TH&F 521 History of Period Style II	3
TH&F 525 Theatre in Western Civilization to 1642	3
TH&F 526 Theatre in Western Civilization from 1642	3

Theatre Design Concentration (33 hours)

TH&F 116 Scenographic Techniques	3
TH&F 316 Beginning Scene Design for Theatre, Film, and Video ..	3
TH&F 320 Beginning Costume for Theatre, Film, and Video	3
TH&F 324 Beginning Lighting Design for Theatre, Film, & Video ..	3
Theatre design electives selected from an approved list	9
History of art (HA 150 and HA 151)	6
History of art or architecture electives	6

College Courses (30 hours)

ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, ENGL 211, or ENGL 360	9
Humanities courses	6
Social sciences courses	6
Natural science or mathematics courses	6
Electives (academic)	3

General Electives (19 hours)

By the beginning of the junior year, the student must select one of the following concentrations within the major: scene design, costume design, or lighting design and production.

Visual Communication

The number of students admitted to visual communication in the fall semester is based on resources (space and number of faculty members).

Transfer Students. The department encourages all transfer students to follow the full three-year program. Transfer students are considered for admission at the sophomore or junior level. Possible receipt of advanced-standing credit is decided by review of portfolio work representing all courses for which advanced standing is to be considered. A catalog description and

Interior design requirements are being modified. Consult an adviser for current requirements.

The Art & Design Gallery exhibits faculty and student scholarship work as well as visiting and touring collections.

**Gallery hours:
Sun.: 1 to 4:30 p.m.
Mon., Tues., and Wed.: 8:30 a.m. to 4:30 p.m.; Thurs.: 8:30 a.m. to 9 p.m.; Fri.: 8:30 a.m. to 1:30 p.m.; Sat. and holidays: closed.**

The interdisciplinary theatre design program offers students experience in designing sets, costumes, and lighting.

syllabus for each course must accompany the portfolio. Consideration for advanced standing is based on the nature and quality of work in courses for which it is sought. Prospective transfer students must submit applications and portfolios before the spring semester before the fall for which they are seeking admission.

Admission to Junior/Senior Visual Communication Courses. To be considered for admission to upper-level courses, students must first be accepted into VISC 202 Typography and VISC 204 Visual Concepts and then pass a mandatory portfolio review at the end of the fall semester in which they complete VISC 202 and VISC 204. Acceptance into VISC 202 and VISC 204 is based on the cumulative grade-point average.

The department believes that a qualified admission policy contributes naturally to the excellence of the program and the quality of its graduates. For this reason and because of space and staffing constraints, faculty members admit up to 60 students in the fall semester (40 graphic design students and 20 illustration students). VISC 202 and VISC 204 are offered only in the fall. In addition to academic considerations (cumulative grade-point average thresholds must be met, and students must have grades of C in both VISC 202 and VISC 204 to continue in visual communication), admission is based on a portfolio review of all work produced in VISC 202 Typography and VISC 204 Visual Concepts.

Graphic Design Track. A total of 124 credit hours is required for the degree, including 75 to 76 hours in art and design courses, as follows:

Foundations (12 credit hours)	
AFND 101 and AFND 102 Introduction to Drawing I and II	6
DFND 103 and DFND 104 Introduction to Design I and II	6
Advanced Basic Design (6 hours)	
ABDS 202 Photography I	3
ABDS 302 Photography II (3) or ABDS 303 Photography III (3)	3
Major Studies (39-40 hours)	
VISC 202 Typography I	3
*VISC 204 Visual Concepts	3
VISC 302 Typography II	3
VISC 314 Graphic Design I	3
VISC 402 Typography III	3
VISC 414 Graphic Design II	3
VISC 424 Graphic Design III	6
VISC 514 Graphic Design IV	6
VISC 524 Senior Problems Studio	6
VISC 534 Portfolio/Professional Practice	1
VISC 520 Hallmark Symposium Series	2-3
Related Requirements (6 hours). Select two of the following:	
ABDS 201 Color (3)	
DRWG 213 Life Drawing I (3)	
VISC 305 Drawing Media for Illustration I (3)	

Electives in Art and Design (12 hours)

Illustration Track. A total of 124 credit hours is required for the degree, including 74 to 75 hours in art and design courses, as follows:

Foundations (12 credit hours)	
AFND 101 and AFND 102 Introduction to Drawing I and II	6
DFND 103 and DFND 104 Introduction to Design I and II	6
Advanced Basic Design (3 hours)	
ABDS 202 Photography I	3
Major Studies (38-39 hours)	
VISC 202 Typography I	3
*VISC 204 Visual Concepts	3
VISC 305 Drawing Media for Illustration I	3
VISC 315 Illustration I	3
VISC 405 Drawing Media for Illustration II	3
VISC 415 Illustration II	3
VISC 515 Illustration III	6
VISC 525 Animation for Illustration	6
VISC 535 Illustration IV	6
VISC 520 Hallmark Symposium Series	2-3

Related Requirements (9 hours)	
DRWG 213 and DRWG 314 Life Drawing I and II	6
PNTG 263 Painting I	3

Electives in Art and Design (12 hours). Recommended: ABDS 201 Color (3); ABDS 302 Photography II (3); CER, METL, TD, or SCUL elective (3); any PRNT printmaking course (3)

*A mandatory portfolio review is required for all visual communication students at the end of the semester following completion of VISC 202 Typography and VISC 204 Visual Concepts. The review, conducted by the visual communication faculty, is for the selection and admission of students into junior/senior-level courses in the major field.

Both Tracks

College and Professional Courses (45 hours)	
Liberal Arts and Sciences requirements	27
History of art (HA 150 and HA 151)	6
ADS 540 History and Philosophy of Design	3
History of art elective	3
Electives (no art or design)	6

General Electives (Graphic design: 3-4 hours) (Illustration: 5-6 hours)

History of Art

Chair: Linda Stone-Ferrier, arthist@ku.edu
 Spencer Museum of Art, 1301 Mississippi St., Room 209
 Lawrence, KS 66045-7500
 (785) 864-4713, fax: (785) 864-5091

A major in the history of art is available to candidates for the B.F.A. degree. This major combines a 30-hour concentration in art history with 30 hours of studio training. For B.A. and B.G.S. degrees, see the College of Liberal Arts and Sciences chapter of this catalog.

First-year Preparation. Entering first-year students enroll in the foundations program.

Requirements for the B.F.A. Degree. A total of 124 hours is required for the degree, distributed as follows:

Major Program Courses (60 hours)	
*History of art (HA 150, HA 151, plus 24 hours in art history)	30
Foundations—art and design	12
Electives in art and design	18
(Recommended to include a minimum of one course (3 hours) in each of these areas: painting, printmaking, and sculpture)	
*At least one course (3 hours) at or above the 200 level must be completed in each of these five categories: (1) ancient or medieval art; (2) renaissance or baroque art; (3) modern art, which includes 19th- and 20th-century art, American art, and history of photography; (4) East Asian; (5) non-Western (East Asian or African). In other words, students must take 15 hours in these five categories with the remaining 9 hours of art history as electives.	

Liberal Arts and Sciences Courses (45 hours)	
ENGL 101, ENGL 102, and ENGL 203, ENGL 210, or ENGL 211	9
Foreign language (16 hours in one language)	16
College electives including 6 hours in history	20

General Electives (18 hours)

To graduate with a B.F.A. degree in history of art, the student must attain a minimum 3.0 grade-point average in 12 hours of history of art courses numbered above 300 and must have a minimum of 45 hours in all courses numbered above 300.

Bachelor of Art Education in Visual Art Education Degree Requirements

Division Director: Liz Kowalchuk
 Art and Design Bldg., 1467 Jayhawk Blvd., Room 300
 Lawrence, KS 66045-7531, (785) 864-4401
 Degrees offered: B.A.E., M.A.

Admission. Students who wish to teach art should seek admission to the School of Fine Arts and consult the Department of Design for assignment of an adviser and requirement information. In the first two years, students enroll as art education majors (code AEF-BAE) in prerequisites. These prerequisites are necessary for admission to the VAE professional sequence in the junior year:

MATH 101 Algebra (or higher)	3
PSYC 104 General Psychology	3
HSES 260 Personal and Community Health	3
COMS 130 Speaker-Audience Communication (3) or COMS 150 Personal Communication (3)	3
ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
HA 150 Art History I: Ancient through Medieval Art	3
HA 151 Art History II: Renaissance to Contemporary Art	3
AFND 101 and AFND 102 Introduction to Drawing I and II	6
DFND 103 and DFND 104 Introduction to Design I and II	6

Students must apply for admission to the professional sequence on completing the first semester of the sophomore year. Transfer students with more than 45 hours must apply the first semester at KU. Students may not enroll in the professional sequence before formal approval by VAE. Admission to the professional sequence is based on the following minimum criteria:

1. Cumulative grade-point average of 2.5.
2. Grade-point average of 2.75 in required course work.
3. Minimum scores on the Pre-Professional Skills Test of 172 on the writing test, 173 on the reading test, and 172 on the mathematics test.
4. Successful completion of the application form (typed).
5. Satisfactory faculty evaluations in the areas relevant to visual art education including design, art, and history of art. Each applicant's applied instructor must complete a special recommendation form.
6. No grade lower than a C in any course in the professional education sequence.

Note: Students must complete the student teaching experience with grades of C or higher to continue with their internships.

Note: To be licensed as an art teacher in Kansas, a student must fill out an application, pay a fee, pass all three parts of the Pre-Professional Skills Test and the Professional Knowledge component of the National Teachers' Examination, and complete other specified academic degree requirements. Information is available in 211 J.R. Pearson Hall.

Students who do not meet all criteria may be admitted to the professional sequence on a provisional basis and may enroll in a maximum of 5 credit hours of professional sequence courses during the first term of the junior year. Students assigned provisional status must complete all requirements by the end of that term. Candidates are reviewed for admission twice a year. The deadline for all applications is March 1 for fall or October 1 for spring, by 5 p.m. Submit applications to visual art education, 300 Art and Design. Students who are denied admission may reapply for the next deadline but must resubmit a complete application. Students who transfer into the program with more than 45 credit hours may be admitted to the professional sequence on a provisional basis but must complete this application by the first deadline that occurs during their residence at KU. They also must register for classes that fulfill any deficiencies they might have on arrival at KU.

On admission to the professional sequence, students enroll as visual art education majors (code AEFF-BAE) and identify the emphasis in studio art. The emphasis must be one in which KU offers the B.F.A. Students must select appropriate courses in the emphasis in consultation with the visual art education adviser. To enter the final year of the extended program, the student must be admitted to the Graduate School. Regular admission requires a cumulative grade-point average of 3.0 or higher in the baccalaureate degree curriculum. Students with cumulative undergraduate grade-point averages of 2.75 may be admitted on probation.

Advising. Beginning with the first year, all students intending to become visual art education majors should be advised by faculty in the Department of Design. Consult the department for assignment to an adviser.

B.A.E. Degree Requirements

These requirements are currently being modified. Consult an adviser for current requirements.

The Bachelor of Art Education degree requires a minimum of 145 credit hours distributed among general studies, the major, and professional education.

Language Arts and Communication (12 hours)

ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
English elective	3
COMS 130 Speaker-Audience Communication (3) or COMS 150 Personal Communication (3)	3

Behavioral Sciences (6 hours)

PSYC 104 General Psychology	3
Sociology or anthropology elective	3

Social Sciences (6 hours). No course identified as natural science (N) may count in this area.

History elective	3
One course in geography (except physical geography) (3) or political science (3) or economics (3)	3

Natural Sciences and Mathematics (14-16 hours)

BIOL 100 Principles of Biology	3
Biology laboratory	1-2
MATH 101 Algebra	3
Mathematics elective numbered 105 or above (MATH 110 by itself does not meet the mathematics requirement)	3
Physical science elective	3
Physical science laboratory	1-2

Humanities (3 hours)

Humanities elective	3
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Physical and Mental Health (3 hours)

HSES 260 Personal and Community Health	3
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Teacher Education (15 hours)

PRE 306 Development and Learning of the Adolescent	3
T&L/C&T 325 Education in a Multicultural Society	3
T&L/C&T 448 Reading and Writing Across the Curriculum (3) or T&L/C&T 354 Literacy Instruction in the Intermediate Grades (3)	3
T&L/ELPS 450 Foundations of Education	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3

Art Education Methods (17 hours)

VAE 100 Introduction to the Profession of Art Education	3
VAE 320 Instruction and Curriculum I	3
VAE 410 Instruction and Curriculum II	3
VAE 420 Artistic Media and Processes in Art Education	2
VAE 520 Instructional Technology in Art Education	3
VAE 695 Technical Colloquium: Art Museums and Schools	3

Department of Design (18 hours)

DFND 103 and DFND 104 Introduction to Design I and II	6
Ceramics (200-level course)	3
Jewelry and metalsmithing (200-level course)	3
Weaving and textiles (200-level course)	3
Photography	3

Department of Art (18 hours)

AFND 101 and AFND 102 Introduction to Drawing I and II	6
PNTG 263 Painting I	3
Painting elective	3
Sculpture	3
PRNT 223 Intaglio I (3) or PRNT 224 Relief I (3) or PRNT 233 Lithography I (3)	3

History of Art (15 hours)

HA 150 Art History I: Ancient through Medieval Art	3
HA 151 Art History II: Renaissance to Contemporary Art	3
Non-Western history of art	3
Contemporary or modern art history	3
History of art elective	3

Area of Emphasis (12 hours)

Studio art study in one area selected from those offered for the B.F.A. in art, design, or history of art (Courses must be chosen in consultation with the visual art education adviser.)	12
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Other General Studies (6 hours)

In addition to the B.A.E. requirements above, students must complete these courses for licensure (30 hours):

VAE 500 Student Teaching in Art	6
VAE 780 Internship in Teaching Art	15
SPED 707 Children and Youth with Disabilities in General Education ..	2
T&L/ELPS 737 The Governance and Organization of Schools	2
PRE 720 Educational Measurement in the Classroom	3
PRE 730 Counseling and Consultation Skills for Teachers	2

The School of Fine Arts Department of Design is the oldest in the country.

Bachelor of Art Education degree requirements are being modified. Consult an adviser for current requirements.

Visual art education students should consult with advisers in the visual art education program in the first year.

Art and Design Courses

● Advanced Basic Design Studies Courses

ABDS 201 Color (3). An introduction to the basic color theories and their application. Presentation of the relationship between pigment and light, and of additive and subtractive color mixing. Prerequisite: AFND 101 and DFND 103. LAB

ABDS 202 Photography I (3). An introduction to the use of the lens-formed image for visual documentation. Familiarization of the student with the small camera and printmaking. Access to a camera having adjustable aperture, speeds, and focus is required. Prerequisite: Twelve hours of art and/or design. LAB

ABDS 204 Materials Workshop (3). Exploration of basic materials as media; the interrelationship of materials and methods. Prerequisite: AFND 102 and DFND 104. LAB

ABDS 208 Ceramics I (3). The development of form and surface through the use of handbuilding and wheel thrown techniques. Stoneware and Raku will be explored. Prerequisite: AFND 102 and DFND 104. LAB

ABDS 211 Jewelry (3). Introduction to metalsmithing and jewelry design, materials and processes. Student projects will explore the joining, forming, and surface embellishment of metals such as copper, brass, bronze, and sterling. Prerequisite: AFND 102 and DFND 104. LAB

ABDS 212 Drawing Systems II (3). A continuation of Drawing Systems I. Emphasis on theory and application of perspective in efficient visualization of three-dimensional space and form. Further development of visual communication skills stressed. Prerequisite: DBS 111. LAB

ABDS 214 Introduction to Weaving (3). Application of art and design principles to four-harness loom structures. Emphasis on the use of color and texture in loom controlled and weaver controlled techniques. Prerequisite: AFND 102 and DFND 104. LAB

ABDS 215 Textile Handprinting and Resist Processes (3). Fundamentals of resist and dye techniques on textiles: batik, tie-dye, discharge, and direct application. Prerequisite: AFND 102 and DFND 104. LAB

ABDS 302 Photography II (3). Continuation of the skills and concepts presented in ABDS 202 with addition of introduction to color photography, control of artificial lighting in a studio setting, and greater in-depth personal interpretation of photographic problem solving. Prerequisite: ABDS 202 or equivalent. LAB

ABDS 303 Photography III (3). A continuation of skills and concepts presented in ABDS 302 with primary emphasis on the conception, planning, and execution of individual projects. May be repeated once for credit. Prerequisite: ABDS 302. LAB

ABDS 306 Basic Visual Communication (3). Presentation of fundamental concepts of visual and non-visual communication. Exploration of the structure of visual perception, and of the various theories of visual communication. A special laboratory section will include reproduction skills and procedures which are common to visual communication including the use of the computer. Prerequisite: AFND 102 and DFND 104 and three hours of Art Basic Studies. LAB

ABDS 310 A Language of Form (3). The wide law of symmetry including both the isomorphic and homeomorphic theories are considered. Application to design problems are developed from this theoretical base. Emphasis is on problem solving with case histories which relate theory to application. Prerequisite: Sophomore standing or permission of instructor. LEC

ABDS 313 Fiber Forms (3). Studio exploration of fibers as an art form. Techniques include feltmaking, papermaking, basketry, and dyeing. Prerequisite: AFND 102 and DFND 104. LAB

ABDS 316 Screenprinting Textiles (3). Design problems in textile printing with emphasis on screenprinting and photo techniques. Prerequisite: AFND 102 and DFND 104. LAB

ABDS 330 Introduction to Computers in Design (1). Students will use micro-computer system to develop concepts and ideas while learning basic programming language. Hands-on experience with color raster computer, digitizers, printers, plotters, and state of the art software applications. Previous computer experience is not necessary. Prerequisite: AFND 102 and DFND 104. LAB

● Advanced Design Studies Courses

ADS 540 History and Philosophy of Design (3). Survey of design history from 1800 to present with emphasis on graphics, architecture, industrial and interior design movements, individuals and their influences. Prerequisite: Junior standing in the department. LEC

ADS 560 Topics in Design: _____ (1-3). A study of different topics in different semesters in a special area of interest to a staff member and suitable qualified students. May be repeated for credit. Prerequisite: Junior standing in department. LAB

ADS 570 Design Seminar (3). Comprehensive examination of a complex design problem from the point of view of the various specializations. Prerequisite: Junior standing in department. LEC

ADS 580 Special Problems in Design (1-6). A study of current problems in design or crafts with an emphasis on research. Special prob-

lems proposals must be discussed with and approved by the instructor and adviser prior to enrollment in the course. A student may not take more than six credit hours of special problems in any one semester. Prerequisite: Junior standing in department. IND

ADS 720 Graduate Seminar in Design (1).

ADS 722 Crafts Area Graduate Critique/Seminar (1).

ADS 730 Directed Reading in Design (1-3).

ADS 740 Special Problems in Design (1-6).

● Art Courses

ART 120 Fundamentals of Drawing and Painting (3). Specifically for students with limited or no previous experience. An exploration of basic technical and expressive possibilities in drawing and painting; may include field trips, films, visiting lecturers. Six hours scheduled studio activity and three hours outside work weekly. Will not count as studio requirement for B.F.A. in Art or Design. No prerequisites. LAB

ART 121 Fundamentals of Printmaking (3). Specifically for students with limited or no previous experience. An exploration of basic technical and expressive possibilities in printmaking, including woodcut, etching, lithography and silk screen; may include field trips, films, visiting lecturers. Six hours scheduled studio activity and three hours outside work weekly. Will not count as studio requirement for B.F.A. in Art or Design. No prerequisites. LAB

ART 122 Fundamentals of Sculpture (3). Specifically for students with limited or no previous experience. An exploration of basic technical and expressive possibilities in three-dimensional form and space, including sculpture modeling, carving, and construction; may include field trips, films, visiting lecturers. Six hours scheduled studio activity and three hours outside work weekly. Will not count as studio requirement for B.F.A. in Art or Design. No prerequisites. LAB

ART 300 Special Topics in Art: _____ (1-3). Course to be offered in related areas of research, mixed media or interdisciplinary exploration. (This course is not regularly offered. The current timetable should be consulted.) May be repeated for credit. Prerequisite: Departmental or instructor permission. LAB

ART 500 Special Topics in Art: _____ (1-3). Course to be offered in related areas of research, mixed media or interdisciplinary exploration. (This course is not regularly offered. The current timetable should be consulted.) May be repeated for credit. Prerequisite: Departmental or instructor permission. LAB

ART 540 Professional Activities Seminar (1). Comprehensive development of skills and strategies needed to pursue a career as a professional studio artist. Graded on satisfactory/unsatisfactory basis. Prerequisite: Twenty-four hours of departmental electives or permission of instructor. LEC

ART 575 Directed Reading in Art (1-3). Directed reading in specific areas of art. May be repeated for credit in subsequent semesters. Prerequisite: Eighteen hours of departmental electives and permission of instructor. IND

ART 598 Special Topics: Studio Theory and Criticism (3). Lecture, discussion, and supervised research in current topics related to contemporary studio theory and criticism. May be repeated for credit as topics vary. This course will be counted as free electives in course distribution. Prerequisite: Eighteen hours of departmental electives. LEC

ART 599 Special Problems in Art (3). Individual studio activity; Course content to be determined by the student under supervision of a faculty member. May be repeated for credit in subsequent semesters. Prerequisite: Twenty-four hours of departmental electives and permission of instructor. IND

ART 695 Directed Study I (4-5). Individual studio activity under direction of faculty adviser. Prerequisite: Thirty hours of departmental electives, consent of department, and permission of instructor. IND

ART 696 Directed Study II (5). Continuation of ART 695. May be repeated for credit in subsequent semesters. Prerequisite: ART 695 and permission of instructor. IND

● Art Foundations Courses

AFND 101 Introduction to Drawing I (3). Basic problems in drawing. LAB

AFND 102 Introduction to Drawing II (3). Continuation of AFND 101. Prerequisite: AFND 101. LAB

● Ceramics Courses

CER 131 Introduction to Ceramics (3). Specifically for students with limited or no previous experience. An introduction to ceramics including throwing, handbuilding, glazing, firing, and related activities. Counts only as a studio elective or general elective for a B.F.A. in Art or Design. LAB

CER 301 Ceramics II (3). A continuation of ABDS 208 with emphasis in firing low temperature ceramics. An introduction to glaze formulation and firing procedures through the use of earthenware and low temperature talc bodies. Prerequisite: ABDS 208. LAB

CER 302 Ceramics III (3). A study of high fire ceramics using stoneware and porcelain. The development of ceramic forms and shapes utilizing

traditional and nontraditional techniques such as salt glaze, wood firing, oxidation, and reductions. Prerequisite: ABDS 208. LAB

CER 401 Ceramics IV (6). Development of individual direction in ceramics based on experience, research, and skills acquired in previous courses. Repeatable for credit. Prerequisite: CER 301 and CER 302. LAB

CER 504 Kilns (3). The principles in kiln design, including up-draft, down-draft, cross-draft, and electric kilns, and burner technology. Prerequisite: CER 301. LEC

CER 505 Clay and Glaze Formulation (3). Formulation of the various clay bodies and glazes associated with ceramics. Prerequisite: CER 301. LEC

CER 506 Production (6). Procedures, techniques, problems, and solutions for setting up and operating a production pottery studio, including the development of ceramic forms and glazes related to marketability and design and mold production for industry. May be repeated for credit. Prerequisite: CER 301 and CER 302. LAB

CER 715 Ceramics (2-6).

CER 725 Glass (2-6).

● Design Basic Studies Course

DBS 111 Drawing Systems I (3). An introduction to basic pictorial representation structure. Exposure to various visual resources with an opportunity to develop visual communication skills. LAB

● Design Foundations Courses

DFND 103 Introduction to Design I (3). Creative thinking and visual discrimination are the goals in the exploration of the concepts, media, skills, and processes involved in the understanding of design composition. A study of principles used to manipulate the elements of color, line, texture, form/shape, as they relate to compositional and imagery concepts, with an emphasis on two dimensions. LAB

DFND 104 Introduction to Design II (3). A continuation of DFND 103 with a three dimensional emphasis. Prerequisite: DFND 103. LAB

● Drawing Courses

DRWG 203 Drawing III (3). Advanced problems in drawing. Prerequisite: AFND 102 and three hours in design basic studies. LAB

DRWG 213 Life Drawing I (3). Figure drawing. Prerequisite: AFND 102 and DFND 103. LAB

DRWG 304 Drawing IV (3). Continuation of DRWG 203. Prerequisite: DRWG 203. LAB

DRWG 314 Life Drawing II (3). Continuation of DRWG 213. Prerequisite: DRWG 213. LAB

DRWG 318 Life Drawing II, Honors (3). Figure drawing, a continuation of DRWG 213. Prerequisite: DRWG 213; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

DRWG 335 Special Topics in Drawing: _____ (3). Course to be offered in area of special interest to individual faculty, and qualified students. (This course is not regularly offered. The current timetable should be consulted.) May be repeated for credit. Prerequisite: DRWG 203, or DRWG 213, or permission of instructor. LAB

DRWG 505 Drawing V (3). Continuation of DRWG 304. Prerequisite: DRWG 304. LAB

DRWG 506 Drawing VI (3). Continuation of DRWG 505. May be repeated for credit in subsequent semesters. Prerequisite: DRWG 505. LAB

DRWG 515 Life Drawing III (3). Continuation of DRWG 314. Prerequisite: DRWG 314. LAB

DRWG 516 Life Drawing IV (3). Continuation of DRWG 515. May be repeated for credit in subsequent semesters. Prerequisite: DRWG 515. LAB

DRWG 518 Life Drawing III, Honors (3). Figure drawing, a continuation of DRWG 314 or DRWG 318. May be repeated for credit in subsequent semesters. Prerequisite: DRWG 314 or DRWG 318; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

DRWG 519 Life Drawing IV, Honors (3). Figure drawing, a continuation of DRWG 515 or DRWG 518. May be repeated for credit in subsequent semesters. Prerequisite: DRWG 515 or DRWG 518; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

DRWG 535 Special Topics in Drawing: _____ (3). Course to be offered in area of special interest to individual faculty, and qualified students. (This course is not regularly offered. The current timetable should be consulted.) May be repeated for credit. Prerequisite: 12 hours of drawing and permission of instructor. LAB

● Expanded Media Courses

EXM 273 Performance Art I (3). An introduction to the understanding and production of performance art. Students will gain proficiency in conceptualization and production of performance time-based art in an interdisciplinary art-making environment. LAB

EXM 276 Installation Art I (3). Introductory problems toward the creation of environments using a variety of media including traditional and non-traditional approaches to art-making. LAB

EXM 301 The Digital Image I (3). Introduction to various still digital processes and skills that encourage the use of digital imagery within a variety of other media. Focus on content issues as they relate to development of artwork incorporating digital imagery. Prerequisite: Permission of instructor. LAB

EXM 303 Intermedia I (3). An introduction to the use/handling and integration of diverse, new and traditional materials, techniques and processes. Problems will involve strategies for discovering and managing combinations of drawn, painted, digital and constructed forms. Studio sessions will include research, lecture, demos, and guest speakers. Prerequisite: Permission of instructor. LAB

EXM 373 Performance Art II (3). Continuation of EXM 273, Performance Art I. Prerequisite: EXM 273. LAB

EXM 374 Performance Art II, Honors (3). Continuation of EXM 273, Performance Art I. Prerequisite: EXM 273; and membership in the University Honors Program or 3.25 minimum cumulative grade point average with permission of the department. LAB

EXM 377 Installation Art II (3). Continuation of EXM 276, Installation Art I. Prerequisite: EXM 276. LAB

EXM 378 Installation Art II, Honors (3). Continuation of EXM 276, Installation Art I. Prerequisite: EXM 276; membership in the University Honors Program or 3.25 minimum cumulative grade point average with permission of the department. LAB

EXM 501 The Digital Image II (3). Continuation of EXM 301, The Digital Image I. May be repeated for credit. Prerequisite: Permission of instructor. LAB

EXM 503 Intermedia II (3). Continuation of EXM 303, Intermedia I. May be repeated for credit. Prerequisite: Permission of instructor. LAB

EXM 535 Expanded Media III (3). Continuation of Expanded Media studio research. Prerequisite: Two (200-and/or 300-level) Expanded Media courses. LAB

EXM 536 Expanded Media III, Honors (3). Continuation of Expanded Media studio research. Prerequisite: Two (200- and/or 300-level) Expanded Media courses; membership in the University Honors Program or 3.25 minimum cumulative grade point average with permission of the department. LAB

EXM 537 Expanded Media IV (3). Continuation of EXM 535, Expanded Media III. May be repeated for credit. Prerequisite: EXM 535. LAB

EXM 538 Expanded Media IV, Honors (3). Continuation of EXM 536, Expanded Media III, Honors. May be repeated for credit. Prerequisite: EXM 535 or EXM 536; membership in the University Honors Program or 3.25 minimum cumulative grade point average with permission of the department. LAB

EXM 539 Special Problems Expanded Media (3). Individual studio activity; course content to be determined by the student under supervision of a faculty member. May be repeated for credit in subsequent semesters. Prerequisite: Twenty-four hours of departmental electives and permission of instructor. LAB

EXM 541 Graduate Performance Art (3). Students will gain proficiency in conceptualization and production of performance time-based art in an interdisciplinary art-making environment. Prerequisite: Permission of instructor. LAB

EXM 542 Graduate Installation Art (3). Advanced problems toward the creation of environments using a variety of media including traditional and non-traditional approaches to art-making. Prerequisite: Permission of instructor. LAB

EXM 543 Graduate: The Digital Image (3). Advanced work focusing on content issues as they relate to development of artwork incorporating digital imagery. Prerequisite: Permission of instructor. LAB

EXM 545 Graduate Intermedia (3). Advanced work in the use/handling and integration of diverse, new and traditional materials, techniques and processes. Advanced problems will involve strategies for discovering and managing combinations of drawn, painted, digital, and constructed forms. Studio sessions will include research, lecture, demos, and guest speakers. Prerequisite: Permission of instructor. LAB

EXM 546 Graduate Expanded Media V (3). Continuation of Expanded Media studio research. Prerequisite: Permission of instructor. LAB

● Industrial Design Courses

INDD 213 Behavior in Design (3). Introduction to the behavioral literature appropriate to industrial, interior, and visual design; primarily through the assessment of the effects of the artificial environment on behavior and attitudes through evaluation by observations, surveys, and questionnaires, i.e., proxemics and behavior settings. Open to non-design students. Prerequisite: Permission of instructor for non-design students. Corequisite: AFND 102 and DFND 103. LAB

INDD 313 Visual Presentation (3). Course combines the study of advanced drawing systems theory with study and practice in visual

The Department of Design offers B.F.A. programs in ceramics, industrial design, interior design, metalsmithing/jewelry, textile design, theatre design, and visual communication.

Consult department and division offices for current listings of all courses required for their majors.

perception methods, techniques, and media relevant to the fields of industrial design and interior design. Prerequisite: ABDS 212. LAB

INDD 384 Industrial Design I (3). Principles underlying the broad field of industrial design. Short, focused elementary projects in design and applied research. Lectures, directed readings, discussions, studio, and laboratory. Prerequisite: ABDS 204, MATH 115, and INDD 313. LAB

INDD 388 Industrial Design II (3). Principles underlying the broad field of industrial design. Short, focused elementary projects in design and applied research. Lectures, directed readings, discussions, studio, and laboratory. Prerequisite: INDD 384. LAB

INDD 478 Internship (3-6). Experience in industrial design practice gained while working in an internship position within a professional industrial design firm (consulting office or corporate design department). Experience must be gained while working under the guidance of a cooperating, qualified design professional. Details of each internship, e.g., name and location of firm, identity of cooperating professional, length of internship, hours worked each week, nature of work experience, methods to be used in evaluating student performance, etc., must be satisfactorily defined, arranged, and agreed upon jointly by the student, the firm offering the internship, the instructor under which the course is listed, and the industrial design area head prior to the student's enrollment in the course. Prerequisite: INDD 384, INDD 388, INDD 508, INDD 512, INDD 578, INDD 646, INTD 504, and consent as described in the course description. Course may be repeated for credit to earn a maximum total of six semester hours credit applicable toward a degree. FLD

INDD 508 Materials and Processes (3). A study of modern materials, manufacturing processes, and construction methods applicable to the fields of industrial design and interior design. Design analysis of existing products, furniture, building components, and storage systems. Design assignments in furniture, storage systems, and interior space arrangements with emphasis on materials and construction. Field trips to area manufacturing and design facilities. Prerequisite: Permission of instructor. LEC

INDD 510 Human Factors in Design (4). Introduction to the field of human factors (ergonomics) appropriate to industrial, interior, and visual design. Human capabilities, human-machine interfaces and system properties, and the environment are considered, a micro-computer laboratory is integrated into the course. Open to all university students. (Same as GEOG 510.) Prerequisite: Consent of instructor for non-art and non-design majors. Corequisite: AFND 102 and DFND 103 for art or design majors. LEC

INDD 512 Methods in Design (3). Introduction to the study of methods of designing common to industrial, interior, and visual design. Evaluation methods (semantic differential), creativity methods (scenario writing), and task-oriented method: (PERT/CPM) will be considered in relation to design problems. Open to non-design students. Prerequisite and/or Corequisite: INDD 384 or INTD 301 for industrial design majors and interior design majors respectively. Consent of instructor for all other students. LEC

INDD 524 Packaging Design (3). Contemporary problems in packaging dealt with in terms of function, structure, materials, aesthetics, environmental considerations, and other factors related to total concept. Includes historical review of major trends in packaging and examination of the positive and negative impacts of such trends upon producer, distributor, and consumer. Prerequisite: Permission of instructor. LEC

INDD 578 Problems in Industrial Design: ____ (3). Individual and/or group research projects in one of several specific design areas which will be identified on a semester by semester basis. May be repeated for credit. Prerequisite: Eligibility for INDD 384 (industrial design majors). LAB

INDD 646 Industrial Design III (3). Continuation of INDD 384 and 388 but encompassing design problems of greater complexity including group research and problem solving assignments in system and/or joint product design. Emphasis upon professional ethics, accountability, and responsibility to public and client. Lectures, directed readings, discussions, studio, and laboratory. Prerequisite: INDD 388. LAB

INDD 648 Industrial Design IV (3). Continuation of INDD 384 and INDD 388 but encompassing design problems of greater complexity including group research and problem solving assignments in system and/or joint product design. Emphasis upon professional ethics, accountability, and responsibility to public and client. Lectures, directed readings, discussions, studio, and laboratory. Prerequisite: INDD 646, INDD 508, INDD 510, and INDD 512. LAB

INDD 655 Portfolio (1). Work directed toward maximizing the quality and effectiveness of the individual student's professional portfolio. Prerequisite: INDD 648. LEC

INDD 678 Advanced Problems in Industrial Design (3). Similar to INDD 578, Problems in Industrial Design, except as follows: design topic to be selected jointly by student and instructor with content, methodology, and anticipated accomplishment to be outlined by the student and approved by the instructor prior to enrollment in the course; design projects will normally be undertaken by each student on an individual rather than group basis and selected according to his or her needs, strengths, weaknesses, and interests; and students may

enroll in up to two sections of same course (3-6 hours) during same semester. Prerequisite: Industrial design majors: completion of fourth-year requirements; or for non-majors, permission of instructor. LAB

INDD 680 Thesis (3-6). Course requires the accomplishment of a comprehensive, independent research, design, and development project appropriate to the field of industrial design, the depth and complexity of which are commensurate with the fifth year level of the course. The nature and scope of the project, as well as details of anticipated accomplishment must be outlined by the student and approved by the instructor prior to the beginning of the second week of classes. This course requires completion of all research, basic problem solving, preliminary design phases of the project, final design development and refinement, detail drawings, rendering, model building, and a written documented report of the project. Prerequisite: INDD 510, INDD 512, INDD 578 (six hours), INDD 648, INTD 504, and a jury acceptance of student portfolio. THE

INDD 715 Industrial Design (2-6).

● Interior Design Courses

INTD 205 Introduction to Interior Design (4). Lectures and studio projects on form and function related to interior spaces for new buildings and/or the rehabilitating and renovating of older buildings. Emphasis will be placed on the development through research of the students fluency in building finish products, their application, and the use of color. This course is the initial studio in the interior design area and will provide the direction and opportunity for the student to apply basic design and drawing skills to meet project program requirements in an actual building context. Prerequisite: AFND 101 and AFND 102, DFND 103 and DFND 104, and DBS 111. Corequisite: TD 202, ARCH 103, and ABDS 212. LAB

INTD 302 Fundamentals of Interior Design (5). Comprehensive study and analysis of manufactured residential and commercial products and their specifications and sources which are of importance to the field of interior design. Research and analysis of materials, resources, methods, and processes in the design and documentation of commercial and residential interior design projects. Prerequisite: INTD 205. Corequisite: ABDS 201 and INDD 313. LAB

INTD 503 Interior Programming (3). Examining and analyzing essential information necessary to determine the clients' present and future operational requirements and the space, facilities, and services required for support. Establishing pre-planning concepts and guidelines on building and space utilization. Effort is directed toward developing space into a functional, flexible, and aesthetic environment in which to work. Study includes the use of questionnaires, organization charts, space study and standards, space projections, space tabulations, and space distribution using interaction, blocking, and layering diagrams. Prerequisite: INTD 302 for Interior Design majors; INDD 388 and INDD 512 for industrial design majors. Consent of instructor for all other students. LAB

INTD 504 Interior Planning and Design (3). Planning and design of commercial and corporate interiors. Studying the organization and utilization of spaces as affected by the needs of the client and the architectural concepts of the structure. Examining conceptual and realistic planning needs using both closed and open office concepts. Other emphases including furniture systems analysis of major manufacturers and detail understanding of systems through sales demonstrations and field trips. Prerequisite: INTD 302, ARCE 540 for interior design majors; INDD 388, INDD 512, ARCE 540, and INDD 313 for industrial design majors. Consent of instructor for all other students. LAB

INTD 505 Interior Specifications (3). Research and specifications of interior materials and furniture. Awareness of professional and product liabilities as well as federal, state, and local government regulations and standards. Emphasis on quality control using performance and system approach, fire performance testing and life cycle casting as methods of evaluating materials and providing a basis for making responsible decisions. Exercises on working drawings and schedules. Prerequisite: INTD 504 and ARCH 321 for interior and industrial design majors. Consent of instructor for all other students. LAB

INTD 506 Advanced Interior Planning and Design (3). An understanding of the complete design process from initial space program through planning to final color, material and furniture selections, stressing advance programming and planning skills on complex scale level spaces. Exploring both conventional and modular planning approaches, complete design projects using plans, elevations, perspectives, and material studies. Field trips to design offices, new installations and manufacturers' presentations provide student complete scope of the design profession. Prerequisite: INTD 503 and INTD 504 for all interior and industrial design majors. Consent of instructor for all other students. LAB

INTD 535 Portfolio (1). An individual review of the student's portfolio. Topics in presentation techniques, materials, and organization of content will be discussed as related to individual student needs. Prerequisite: INTD 606. Corequisite: INTD 607. LAB

INTD 606 Thesis I (3). Course consists of and requires the accomplishment of approximately the first half of a comprehensive, independent research, planning, and design project appropriate to the field of interior design the depth and complexity of which are commensurate

with the fifth year level of the course. The nature and scope of the project, as well as details of anticipated accomplishment, must be outlined by the student and approved by the instructor prior to the beginning of the second week of classes. This course requires completion of all research and programming, plus initial planning and design to produce a viable conceptual solution to the problem. Remaining phases of the same project, e.g., budget, final planning and design, specifications, working drawings, presentation drawings, and renderings, models and a final programming and budget report of the project will be completed. Prerequisite: INTD 505 and INTD 506. THE

INTD 607 Professional Observation (3). A voluntary program upon the part of the student to observe under a practicing professional designer the execution of an interior design program or design seminar. Prerequisite: INTD 505 and INTD 506. FLD

INTD 608 Thesis II (3). Continuation of INTD 606. Prerequisite: INTD 606. THE

INTD 609 Interior Design Internship (13). An internship program available to qualified fifth year students. Students will work full-time in an acceptable professional office. Prerequisite: Completion of fourth year requirement and permission of area faculty. FLD

INTD 715 Interior Design (2-6).

A grant from Hallmark Cards regularly brings a dozen nationally known illustrators and graphic artists to the Lawrence campus.

The 2006 Fiske Guide to Colleges calls KU's School of Fine Arts a standout.

Some departments do not offer all courses listed in any one semester. Consult the Timetable of Classes for current course offerings, www.timetable.ku.edu.

● Metalsmithing/Jewelry Courses

METL 132 Introduction to Metals/Jewelry (3). Specifically for students with limited or no previous experience. A comprehensive study of the field of jewelry and metalsmithing with an emphasis on the tools, processes, and techniques used in the design and fabrication of objects from metals such as aluminum, brass, copper, bronze, sterling and related materials. Studio experience will include lectures, slide presentations, demonstrations, visiting artist, and student projects. Counts only as a studio elective or general elective for a B.F.A. in art or design. LAB

METL 301 Metalsmithing (3). Introduction to various crafts processes used in jewelry design. Students will be creating their own wax models for casting with centrifugal machines. Other methods of pattern making and casting will be explored. Prerequisite: ABDS 211. LAB

METL 302 Professional Practices (3). The development of a portfolio including designing, rendering, and model making for future projects. Photographing completed objects and discussing professional aspects of the jewelry/metalsmithing field. Prerequisite: Six hours of metalsmithing. LAB

METL 360 Holloware (3). Problems related to specific smithing techniques such as raising, stretching, shell structures and seam fabrications. Metal manipulation on a large scale. Prerequisite: METL 301. LAB

METL 362 Metalsmithing (6). Advanced metalworking with an emphasis on the refinement of design and techniques. Processes may include linkage, marriage of metals, metal inlays, hinge and catch fabrication. Prerequisite: METL 301. LAB

METL 364 Enameling (6). Problems of basic and advanced enameling as applied to jewelry design and metalsmithing objects. Exploration of major enameling techniques: such as limoges, cloissone, champeve, and bassetaille. Prerequisite: Six hours of metalsmithing or consent of instructor. LAB

METL 501 Seminar (3). Lectures and demonstrations on techniques of contemporary interest outside of typical classroom activity. Prerequisite: Six hours of metalsmithing. LEC

METL 515 Advanced Metals (6). Emphasis on individual design aesthetic through intensive designing, rendering, and modelmaking as preparation for fabricated pieces of jewelry, holloware, and/or small objects to be completed over two semesters. The second semester, of this two semester sequence, requires a final presentation of a complete portfolio including resume, renderings and photographs of the finished work. Prerequisite: METL 362, must be repeated to maximum of twelve credit hours. LAB

METL 715 Metals/Jewelry (2-6).

● Painting Courses

PNTG 263 Painting I (3). Basic problems in painting. Prerequisite: AFND 102 and DFND 103. LAB

PNTG 337 Special Problems in Watercolor (3). Sessions will deal with the preparation of watercolor paints and equipment, but the main emphasis will be placed on relational concepts affecting tone, structure, and unity in work. While the students will be expected to explore some of the traditional approaches to watercolor, they will also be encouraged to work with new and innovative ones. (This course is not regularly offered. The current Timetable should be consulted.) May be repeated for credit. Prerequisite: PNTG 263 or permission of instructor. LAB

PNTG 338 Special Problems in Landscape Painting (3). An introduction to landscape painting. Considerable work will be done outdoors. Emphasis will be placed upon experiencing the environment and the development of individual approach. Class will be limited to fifteen. (This course is not regularly offered. The current Timetable should be consulted.) May be repeated for credit. Prerequisite: PNTG 263 and permission of instructor. LAB

PNTG 364 Painting II (3). Continuation of PNTG 263. Prerequisite: PNTG 263. LAB

PNTG 366 Special Topics in Painting: _____ (1-3). Course to be offered in area of studio activity of specific interest to individual faculty and qualified students. (This course is not regularly offered. The current timetable should be consulted.) May be repeated for credit. Prerequisite: PNTG 263. LAB

PNTG 368 Painting II, Honors (3). Continuation of PNTG 263. Prerequisite: PNTG 263; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

PNTG 565 Painting III (3). Continuation of PNTG 364. Prerequisite: PNTG 364. LAB

PNTG 566 Painting IV (3). Continuation of PNTG 565. May be repeated for credit. Prerequisite: PNTG 565. LAB

PNTG 567 Painting III, Honors (3). Continuation of PNTG 364 or PNTG 368. Prerequisite: PNTG 364 or PNTG 368; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

PNTG 568 Special Topics in Painting: _____ (1-3). Courses to be offered in area of studio activity of specific interest to individual faculty and qualified students. (This course is not regularly offered. The current timetable should be consulted.) May be repeated for credit. Prerequisite: PNTG 364. LAB

PNTG 569 Painting IV, Honors (3). Continuation of PNTG 565 or PNTG 568. Prerequisite: PNTG 565 or PNTG 568; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

PNTG 585 The Figure I (3). The figure and its environment in various media. Prerequisite: DRWG 314 and PNTG 364. LAB

PNTG 586 The Figure II (3). Continuation of PNTG 585. May be repeated for credit. Prerequisite: PNTG 585. LAB

PNTG 588 The Figure I, Honors (3). The figure and its environment in various media. Prerequisite: DRWG 314 or DRWG 318 and PNTG 364 and PNTG 368; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

PNTG 589 The Figure II, Honors (3). Continuation of PNTG 585 or PNTG 588. May be repeated for credit. Prerequisite: PNTG 585 or PNTG 588; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

PNTG 667 Painting V (3). Continuation of PNTG 566. Prerequisite: PNTG 566. LAB

PNTG 668 Painting VI (3). Continuation of PNTG 667. May be repeated for credit in subsequent semesters. Prerequisite: PNTG 667. LAB

PNTG 687 The Figure III (3). Continuation of PNTG 586. Prerequisite: PNTG 586. LAB

PNTG 688 The Figure IV (3). Continuation of PNTG 687. May be repeated for credit. Prerequisite: PNTG 687. LAB

● Printmaking Courses

PRNT 223 Intaglio I (3). Introduction to intaglio. Prerequisite: AFND 102 and DFND 103. LAB

PRNT 224 Relief I (3). Introduction to relief printing. Prerequisite: AFND 102 and DFND 103. LAB

PRNT 233 Lithography I (3). Introduction to lithography. Prerequisite: AFND 102 and DFND 103. LAB

PRNT 243 Serigraphy I (3). Introduction to serigraphy. Prerequisite: AFND 102 and DFND 103. LAB

PRNT 324 Intaglio II (3). Continuation of PRNT 223. Prerequisite: PRNT 223. LAB

PRNT 325 Relief II (3). Continuation of PRNT 224. Prerequisite: PRNT 224. LAB

PRNT 328 Intaglio II, Honors (3). Continuation of PRNT 223. Prerequisite: PRNT 223; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

PRNT 329 Relief II, Honors (3). Continuation of PRNT 224. Prerequisite: PRNT 224; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

PRNT 334 Lithography II (3). Continuation of PRNT 233. Prerequisite: PRNT 233. LAB

PRNT 338 Lithography II, Honors (3). Continuation of PRNT 233. Prerequisite: PRNT 233; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

PRNT 344 Serigraphy II (3). Continuation of PRNT 243. Prerequisite: PRNT 243. LAB

PRNT 348 Special Problems in Printmaking—Color Printing in Relief and Intaglio (3). Multiple block and plate printing in color. (This

course is not regularly offered. The current Timetable should be consulted.) Prerequisite: PRNT 223 and permission of instructor. LAB

PRNT 349 Serigraphy II, Honors (3). Continuation of PRNT 243. Prerequisite: PRNT 243; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

PRNT 523 Printmaking III A (Intaglio) (3). Prerequisite: PRNT 324 or permission of instructor. LAB

PRNT 524 Printmaking III B (Lithography) (3). Prerequisite: PRNT 334 or permission of instructor. LAB

PRNT 525 Printmaking III C (Serigraphy) (3). Prerequisite: PRNT 344 or permission of instructor. LAB

PRNT 526 Printmaking IV A (Intaglio) (3). Prerequisite: PRNT 523 or permission of instructor. LAB

PRNT 527 Printmaking IV B (Lithography) (3). Prerequisite: PRNT 524 or permission of instructor. LAB

PRNT 528 Printmaking IV C (Serigraphy) (3). Prerequisite: PRNT 525 or permission of instructor. LAB

PRNT 579 Special Problems in Printmaking (3). Individual studio activity; course content to be determined by the student under supervision of a faculty member. May be repeated for credit in subsequent semesters. Prerequisite: Twenty-four hours of departmental electives and permission of instructor. IND

PRNT 662 Printmaking V (3). Individual research in printmaking. Prerequisite: PRNT 526 or PRNT 527 or PRNT 528. LAB

PRNT 663 Printmaking VI (3). Continuation of PRNT 662. Prerequisite: PRNT 662. LAB

● Sculpture Courses

SCUL 253 Sculpture I (3). Introduction to sculpture. Prerequisite: AFND 102 and DFND 103. LAB

SCUL 315 Special Topics in Sculpture: ____ (3). Course to be offered in area of studio activity of specific interest to individual faculty and qualified students. (This course is not regularly offered. The current Timetable should be consulted.) May be repeated for credit. Prerequisite: SCUL 253 or ABDS 208 or ABDS 211. LAB

SCUL 349 Special Problems in Metal Casting (3). A course in foundry techniques as related to sculpture. Both traditional and experimental procedures for casting bronze, aluminum, and iron sculpture will be explored. May be repeated for credit. Prerequisite: SCUL 253 or ABDS 208 or ABDS 211 or ABDS 313. LAB

SCUL 350 Special Problems in Direct Metal Fabrication (3). The course will present a variety of techniques for fabricating metal sculpture. Oxyacetylene and electric arc welding processes will be included. May be repeated for credit. Prerequisite: SCUL 253 or ABDS 208 or ABDS 211 or ABDS 313. LAB

SCUL 354 Sculpture II (3). Continuation of SCUL 253. Prerequisite: SCUL 253. LAB

SCUL 355 Sculpture III (3). Continuation of SCUL 354. Prerequisite: SCUL 354. LAB

SCUL 358 Sculpture II, Honors (3). Continuation of SCUL 253. Prerequisite: SCUL 253; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

SCUL 359 Sculpture III, Honors (3). Continuation of SCUL 354 or SCUL 358. Prerequisite: SCUL 354 or SCUL 358; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

SCUL 556 Sculpture IV (3). Continuation of SCUL 355. May be repeated for credit. Prerequisite: SCUL 355. LAB

SCUL 558 Sculpture IV, Honors (3). Continuation of SCUL 355 or SCUL 359. May be repeated for credit. Prerequisite: SCUL 355 or SCUL 359; membership in the University Honors Program or 3.25 minimum cumulative grade-point average; and permission of the department. LEC

SCUL 559 Special Problems in Sculpture (3). Individual studio activity; Course content to be determined by the student under supervision of a faculty member. May be repeated for credit in subsequent semesters. Prerequisite: Twenty-four hours of departmental electives and permission of instructor. IND

SCUL 657 Sculpture V (3). Continuation of SCUL 556. Prerequisite: SCUL 556. LAB

SCUL 658 Sculpture VI (3). Continuation of SCUL 657. May be repeated for credit in subsequent semesters. Prerequisite: SCUL 657. LAB

● Textile Design Courses

TD 130 Introduction to Weaving (3). Specifically for students with limited or no previous experience. Application to art and design principles to four-harness loom structures. Emphasis on the use of color and texture in loom controlled and weaver controlled techniques. Counts only as a studio elective or general elective for a B.F.A. in Art or Design. LAB

TD 133 Introduction to Fibers (3). Studio exploration of fibers as an art and design form. Techniques include dyeing, spinning yarn, soft sculpture, embellishment, crochet. Open to all university students. LAB

TD 202 Fiber Properties Lecture (3). The study of the production, manufacture, and characteristics of the important textile fibers. The construction and testing of fabrics. Demonstrations and studio work to accompany study. Prerequisite: AFND 102 and DFND 104. LEC

TD 301 Weave Structures (3). Continuation of ABDS 214. Research and analysis of multiple-harness weave structures. Weave drafts. Design problems to develop the use of color, form, and surface in simple and compound weaves. Prerequisite: ABDS 214. LAB

TD 302 Directed Study in Weaving (3). Development of individual art and design concepts in relation to woven structures and/or forms. Prerequisite: ABDS 214. LAB

TD 303 Problems in Weaving (3). Experimentation with resist dyeing, painted warps and/or "Fiber Forms" techniques in woven structures. Individual research and development of thematic concepts. Prerequisite: ABDS 313, TD 301. LAB

TD 403 Directed Study in Textile Printing (3). Individual problems in textile printing and dyeing processes. Prerequisite: ABDS 215. LAB

TD 404 Problems in Printing and Dyeing (3). Prerequisite: ABDS 215. LAB

TD 504 History of Textiles, Lecture (3). Study of historical textiles, their design development, and the techniques employed. Prerequisite: Junior standing in department or permission of instructor. LEC

TD 515 Senior Studio I (3-6). Development of individual direction in textiles based on experience, research, and skills acquired in preceding courses. Prerequisite: Twenty-four credits in Textile Design and consent of instructor. LAB

TD 520 Senior Studio II (3-6). Continuation of TD 515. LAB

TD 715 Textile Design in Weaving, Printing, and Dyeing (2-6).

TD 750 Graduate Seminar (0.5).

● Visual Art Education Courses

VAE 100 Introduction to the Profession of Art Education (3). This course is designed to acquaint students with the profession of art education by helping to increase an awareness of the role and characteristics of an effective art teacher. Large and small group activities and assignments are dispersed throughout the semester to facilitate these outcomes. Students will be involved in observation of and participation with art teachers and pupils in the public school classrooms, which complement course activities and assignments. VAE 100 is a professional course. Successful completion of the course does not guarantee eventual admission into the Visual Art Education Teacher Education Program. LEC

VAE 320 Instruction and Curriculum I (3). This course will deal with the art education program, K-12, in relation to the rest of the curriculum. This will encompass goals, objective sequence, courses offered at various levels, finance, staffing and administration. Team teaching will provide an introduction to instructional strategies and selection of materials in all aspects of art education and include attention to special populations. LEC

VAE 325 Education in Multicultural Society (2). The course is designed to provide the student with an awareness of and sensitivity to the concept of multicultural education. Topics related to the rationale for and processes of providing a multicultural perspective within the schools will be addressed. Field experiences will be structured to provide students with opportunities to observe the diversity within our society. LEC

VAE 330 Fundamentals of Art (3). An introduction to art designed for the general university student. Designed to facilitate understanding and viewing works of art. Basic information including elements and principles of art, materials and techniques used by artists, and the function of art in society. LEC

VAE 341 Instructional Strategies in Art for Elementary Classroom Teachers (2). Child growth and development in art. Materials as they relate to a sequential art education curriculum in the elementary school. Prerequisite: Admission to the School of Education or the education division of the graduate school. LEC

VAE 410 Instruction and Curriculum II (3). This course prepares art specialists for teaching art at the elementary, middle, and high school levels. Course materials draw from the following: Curriculum development, artistic development, birth through high school age, classroom management, communication skill in teaching, multicultural, and instructional materials and media. Prerequisite: VAE 320. LEC

VAE 420 Artistic Media and Processes in Art Education (2). Building on the experience of VAE 100 and VAE 320, this course will concentrate on art media and technologies for instruction curriculum development in the art room. Students will examine and explore the media appropriate to elementary to secondary levels, learn the technologies relevant to these media, and prepare studio products that reflect their learning. The major goals of the course will be to become knowledgeable of studio techniques, artistic materials and tools for student learning, and budgetary concerns and issues. LEC

KU's University Theatre stages a dozen works annually at Crafton-Preyer Theatre and in an experimental space named after KU alumnus William Inge.

Entrance into the B.F.A. program in dance is provisional during the first year. After evaluation and approval by the faculty, a student is fully accepted into the B.F.A. program.

VAE 497 Independent Study (1-2). Only one enrollment permitted each semester; a maximum of four hours will apply toward the bachelor's degree. Prerequisite: Recommendation of adviser and consent of instructor. IND

VAE 500 Student Teaching in: _____ (1-6). A supervised teaching experience in an approved school setting, with level and subject area to be selected according to the teaching field. Prerequisite: Admission to the student teaching program. FLD

VAE 520 Instructional Technology in Art Education (3). The focus of this course is developing integration strategies and acquiring computer skills for using technology and educational software, digital media, and information technology appropriate to the elementary and secondary school art teaching environments. Students will gain expertise in (a) the selection of appropriate instructional technologies and digital media for use in the art room; (b) production of technology-based instructional materials; and (c) the evaluation and validation of a variety of electronic information sources. LEC

VAE 530 Art and Design in Daily Life (3). Aimed at provoking an awareness of art and design in daily life, course topics, and activities will assist students in critically recognizing, analyzing, and discussing visual elements, ideas, and issues encountered in the built and natural environments including graphic, industrial, interior design, architecture, and other areas of the art world. Intended to serve students across the university with a broad spectrum of experiences, course content will focus on basic ideas in art and design and their interrelationship across disciplines. LEC

VAE 596 Practicum in Teaching Art (2). A supervised art teaching practicum in which students will learn to employ different teaching strategies with children pre-school through high school in the school or museum setting. Prerequisite: VAE 320, VAE 410, VAE 795 or consent of instructor. LEC

VAE 598 Special Course: _____ (1-5). A special course of study to meet current needs of education students; primarily for undergraduates. LEC

VAE 600 Evaluation and Measurement in Art Education (3). An introduction to the concepts and skills for the development and implementation of evaluation procedures for art education. Topics will include the development of student evaluation, the relationship between instructional objectives and evaluation, various evaluation techniques for art education, grading, and providing grades and feedback (to) students, parents, and schools. Prerequisite: VAE 320 and VAE 410. LEC

VAE 680 Internship in Teaching Art (5-16). A supervised internship experience leading to initial art teacher certification. The student assumes the total professional role as a teacher of art in an approved school setting. LEC

VAE 695 Technical Colloquium: Art Museums and Schools (3). A course combining art studio practices, teaching methods, and the art museum, to prepare educators and art educators in the designing of curriculum involving art criticism, art history, art production, and aesthetics. Prerequisite: VAE 320, VAE 340, VAE 410, or consent of instructor. LEC

VAE 698 Education of Women in the Arts (2-3). This course will examine the education of women in the arts at all levels of schooling (preschool, primary, secondary, and university) and in nonformal settings (art clubs, women's leagues, tutoring, etc.). The intent is to further a historical and contemporary based understanding of gender characteristics and discrimination as they affect the education of women in the arts. Students enrolled in three hours credit will be required to write a case study on the education of a woman artist. LEC

VAE 710 Assessment in Art Education (3).

VAE 716 Teaching Art: _____ (1-4).

VAE 750 Introduction to Art Museum Education (1-4).

VAE 774 Art for Exceptional Children (2).

VAE 780 Internship in Teaching Art (5-16).

VAE 790 Applications of Technology in Arts Education (1-3).

VAE 798 Special Course: _____ (1-5).

● Visual Communication Courses

VISC 202 Typography I (3). Introduces the discipline, function, and tradition of typography as it relates to visual/verbal communication. Emphasis is on interrelationships of letter, word, line and page. Projects examine two-dimensional typographic space, language sequence and information hierarchy, type families and their structures, and typographic aesthetic. Prerequisite: AFND 102 and DFND 104. Corequisite: VISC 204 (and VISC 305 for Illustration majors). LAB

VISC 204 Visual Concepts (3). Visual communication problems involving the student in the translation of verbal concepts and design theory into visual images. This course focuses attention on the process of defining problems, gathering information, and formulating clear, powerful, and persuasive visual statements. Introduction to methods of research, idea generation, and image making will be an integral part of this course. Prerequisite: AFND 102 and DFND 104. Corequisite: ABDS 202 and VISC 202. LAB

VISC 302 Typography II (3). Further exploration of typographic form and manipulation of variables which affect content; stresses the importance of typographic composition as an integral component of visual communication design. Projects examine advanced structures of typographic space, work-image structure, typographic history and

theory. Prerequisite: VISC 202, VISC 204, and permission of instructor. Corequisite: VISC 314. LAB

VISC 305 Drawing Media for Illustration I (3). Exploration of problems in drawing for various reproduction processes. Emphasis on perspective, head drawing, the clothed and nude figure, nature illustration, and environments. Various drawing media and materials are explored. Required for Illustration majors as a pre-review course. Prerequisite: AFND 101 and DFND 103 or permission of instructor. LAB

VISC 314 Graphic Design I (3). Exploration of structural systems used in visual organization; grid, proportion, symmetry, sequence, rhythm. Continued exploration of analyzing and creating meaning through semiotics and visual narrative; development of critical thinking and writing skills. Prerequisite: VISC 202, VISC 204, and permission of instructor. Corequisite: VISC 302. LAB

VISC 315 Illustration I (3). Concentrated study in developing skills and techniques with media and materials that are employed in producing contemporary illustration. Continued emphasis on methods of research and idea generation as in VISC 204. Prerequisite: VISC 202, VISC 204, VISC 305, and permission of instructor. Corequisite: VISC 405. LAB

VISC 402 Typography III (3). Building from the structures and approaches of VISC 302, the course is a research-based examination of non-traditional and expressive uses of the typographic medium. Projects include development of word as image and typographic "voice" while further refining technical proficiency. Prerequisite: VISC 302 and VISC 314. Corequisite: VISC 414 and ADS 540. LAB

VISC 405 Drawing Media for Illustration II (3). Continued exploration of problems in drawing and painting for various reproduction processes. Emphasis on color, head drawing, perspective, the clothed and nude figure, environments, and nature illustration. Various drawing, painting, collage and digital media and materials are explored. Prerequisite: VISC 305 or permission of instructor. Corequisite: VISC 315 or permission of instructor. LAB

VISC 414 Graphic Design II (3). Introduces the discipline of designing for dynamic media (i.e., internet, on screen, multi-media). Emphasis will be placed on concept development and on the fundamental principles of information hierarchy, user experience, navigation strategies, site development and site architecture. Projects, lectures and tutorials will provide a working knowledge of current tools and techniques, while exploring the issues of narrative structure, rhythm, space, animation, sound, and video. Prerequisite: VISC 302 and VISC 314. Corequisite: VISC 402 and ADS 540. LAB

VISC 415 Illustration II (3). Exploration of various approaches to creating images that communicate an intended message or mood. Emphasis is placed on the nature of creativity and the creative act leading to visual communication. Prerequisite: VISC 315 and VISC 405. LAB

VISC 424 Graphic Design III (6). Exploration of topics dealing intensively with editorial concept and format organization. Projects stress advanced problems in the integration of text and image through the development of complex and variable structures. Emphasis on thorough researching of content and understanding of production/execution implications of solutions. Prerequisite: VISC 402, VISC 414, and ADS 540. LAB

VISC 514 Graphic Design IV (6). Exploration of visual identity problems utilizing a holistic, systems approach to design. Introduces business and design strategies associated with brand development. Emphasis on the methods of thinking and research which precede the making of design as well as the importance of writing to the graphic design profession. Prerequisite: VISC 424. LAB

VISC 515 Illustration III (6). Advanced development of individual conceptual abilities and style. Prerequisite: VISC 415. LAB

VISC 520 Hallmark Symposium Series (0.50). Visiting professionals discuss various aspects of visual communication based upon their own special areas of expertise. The series is mandatory for all visual communication majors for a minimum of one hour credit. May be repeated for a maximum of three credit hours. LAB

VISC 524 Senior Problems Studio (6). Goal-oriented graphic design problem-solving with emphasis on research, analysis, and synthesis of complex visual problems. Will allow for in-depth study of professional design issues and topics; provides a forum for multi-disciplinary collaboration with related professional disciplines. May be repeated for credit. Prerequisite: VISC 514 or permission of instructor. Corequisite: VISC 534. LAB

VISC 525 Animation for Illustration (6). This advanced level course is a concentrated study in developing skills and techniques with digital media and materials employed in producing basic contemporary animation. A continued emphasis on methods of research and idea generation as in Illustration II (VISC 415) is also part of this course. May be repeated for credit. Prerequisite: VISC 515 or permission of instructor. LAB

VISC 534 Portfolio/Professional Practice (1). Preparation of comprehensive portfolio and consideration of professional requirements encountered by the graphic designer in the visual communications industry. Primarily a lecture course. Participation in the Visual Communications Senior Show is required. Prerequisite: VISC 514. Corequisite: VISC 524. LEC

VISC 535 Illustration IV (6). Visual communication projects with particular development of each student's strengths and interests in

illustration. Completed projects constitute a core for a student's portfolio. Contemporary business practices and legal issues will be addressed. Prerequisite: VISC 525. LAB

VISC 540 The Arts (3-6). This internship (course) is intended to closely approximate the working environment of a professional design studio (e.g. client meetings, deadlines, budgets, and production). With faculty guidance, students design projects from concept through actual production. Clients are primarily from the Performing Arts area. Criteria for entry will include an outstanding portfolio and high academic standing. Participants will be selected by the teacher of record in consultation with the visual communication faculty. Participation in the Arts will not, under any circumstances, substitute for a required major course. Prerequisite: VISC 314 or VISC 315. LAB

VISC 550 Visual Communication Internship (3-6). Students develop professional skills in addition to solving and following through the production for specific client's communication needs. Human relationship, project presentation, technical, budgetary, and time limitations, office practice, and team work are some of the concepts to which the students are exposed. Supervision by faculty or a professional designer/illustrator designated and approved by the area faculty is mandatory. May be repeated for credit. Prerequisite: VISC 314 or VISC 315. FLD

VISC 560 Special Topics in Visual Communication: _____ (3-6). A study of different topics in different semesters in a special area of visual communication. Entry by permission of instructor. May be repeated for credit. LAB

VISC 703 Illustration (3-6).

VISC 706 Graphics (3-6).

MUSIC AND DANCE

Chair: Lawrence Mallett
Murphy Hall, 1530 Naismith Dr., Room 460
Lawrence, KS 66045-3102
(785) 864-3436

www.music.ku.edu or www.dance.ku.edu

Undergraduate degrees offered:

- B.F.A. in Dance.
- B.A. in Fine Arts in Dance.
- Dance Minor.
- B.A. in Fine Arts in Musicology, Music Theory, Piano/Organ/Orchestral Instruments, Voice, or Music with an Outside Minor/Concentration.
- B.M. in Musicology, Music Theory, Music Composition, Organ (with Organ or Church Music emphasis), Piano, Double Bass, Harp, Viola, Violin, Violoncello, Voice (B.M. and B.F.A.), Bassoon, Clarinet, Euphonium, Flute, French Horn, Oboe, Percussion, Saxophone, Trombone, Trumpet, and Tuba.
- B.M.E. in Music Education and/or Music Therapy.
- Music Minor.

Dance

Division Director: Jerel Hilding
Robinson Center, 1301 Sunnyside Ave., Room 251
Lawrence, KS 66045-7567
(785) 864-4264, www.dance.ku.edu

Bachelor of Fine Arts in Dance Degree Requirements

The curriculum leading to the B.F.A. focuses on technique, choreography, and performance. It prepares students for professional careers or further academic study in dance. Entrance into the B.F.A. program is provisional during the first year. After evaluation of the year's work and approval by the faculty, a student is fully accepted into the B.F.A. program.

B.F.A. majors receive integrated training in ballet, modern, and jazz dance technique. They also take courses in choreography, dance theory, history, dance science, and pedagogy. Other B.F.A. courses include

Renaissance and Baroque Dance, Classical East Indian Dance, Conditioning and Injury Prevention for Dancers, and Musical Theatre Dance. Students must complete a senior project in performance and/or choreography. B.F.A. majors have a variety of performance opportunities as members of the University Dance Company.

A total of 125 credit hours is required for the B.F.A. degree in dance.

Liberal Arts and Sciences Requirements. A minimum of 35 credit hours in liberal arts and sciences is required.

ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
TH&F 215 Approaching Design for Theatre and Film (3) or TH&F 216 Scenic Production (2) or TH&F 220 Costume Production (2) or TH&F 224 Lighting Production (2)	2-3
MUSC 136/MUSC 336 Masterworks of Music	3
Humanities electives	6
Social sciences elective	3
College electives	12

Dance Technique (39-40 hours)

DANC 201 and DANC 202 Intermediate Ballet I and II	4
DANC 203 and DANC 204 Intermediate Modern Dance I and II ..	4
DANC 205 Intermediate Jazz Dance	2
DANC 301 and DANC 302 Advanced Ballet I and II	6
DANC 303 and DANC 304 Advanced Modern Dance I	6
DANC 305 Advanced Jazz Dance	3
DANC 301, DANC 302, DANC 303 or DANC 304	6
And four of the following courses	8-9
DANC 305 Advanced Jazz Dance (3)	
DANC 307 Pointe and Pas de Deux (2)/DANC 308 Pas de Deux (1)	
DANC 309 Men's Ballet (2)	
DANC 201 Intermediate Ballet I (2)	
DANC 202 Intermediate Ballet II (2)	
DANC 203 Intermediate Modern I (2)	
DANC 204 Intermediate Modern II (2)	
DANC 205 Intermediate Jazz Dance (2)	

Choreography (10 hours)

DANC 150 Dance Improvisation	2
DANC 250 Choreography: Structured Solos	2
DANC 350 Choreography: Group Forms	3
DANC 450 Environmental Choreography	3

Dance Performance (17 hours)

DANC 260 Musical Theatre Dance	2
DANC 320 University Dance Company (four semesters)	4
DANC 360 Repertory	2
DANC 440 Introduction to Classical East Indian Dance	3
DANC 470 Renaissance and Baroque Dance	3
DANC 550 Senior Project	3

Dance Theory, History, Pedagogy, and Science (24 hours)

DANC 170 Conditioning and Injury Prevention for Dancers	1
DANC 210 Rhythms and Structures of Music	1
DANC 310 Music for Dance	3
DANC 330 Approaches to World Dance	3
DANC 340 Introduction to Laban Movement Analysis	3
DANC 370 Musculoskeletal Concepts for Dancers	3
DANC 375 Ideokinesis	3
DANC 430 Dance for Children	3
DANC 460 Dance History: Research and Reconstruction	3
DANC 530 Practicum in: _____	1

Bachelor of Arts in Fine Arts in Dance Degree Requirements

The curriculum leading to the B.A. in Fine Arts in dance offers integrated training in ballet, modern, and jazz dance techniques, as well as courses in dance improvisation and composition, history and philosophy of dance, Laban Movement Analysis, dance science, music for dance, creative dance for children, dance production, and independent study options. The program prepares students for professional careers in dance or for further academic study. The senior project may involve research in any of the above areas or choreography and performance culminating in a senior recital. Students are expected to take technique classes appropriate to their level of training each semester they are enrolled. A total of 125 credit hours is required.

Liberal Arts and Sciences Requirements. A minimum of 74 credit hours in liberal arts and sciences is required.

ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
MATH 101 Algebra	3
Oral communication	3
Western civilization	6
Foreign language (16 hours in one language)	16
BIOL 100 and BIOL 102 Principles of Biology and Lab	5
Humanities (TH&F 215, TH&F 220, or TH&F 224 and MUSC 136/MUSC 336 must be 6 of these hours)	11-12
Social sciences	9
Non-Western culture	3
General electives	9

Dance (51 credit hours)

Dance Technique (16 hours)	
DANC 201 and DANC 202 Intermediate Ballet I and II	4
DANC 203 and DANC 204 Intermediate Modern Dance I and II ..	4
DANC 205 Intermediate Jazz Dance	2
DANC 301 and DANC 302 Advanced Ballet I and II (6) or DANC 303 and DANC 304 Advanced Modern Dance I and II (6)	6
Dance Performance (2 hours)	
Any combination of DANC 220 Dance Performance and/or DANC 320 University Dance Company (two semesters)	2
Dance Composition (10 hours)	
DANC 150 Dance Improvisation	2
DANC 250 Choreography: Structured Solos	2
DANC 350 Choreography: Group Forms	3
DANC 450 Environmental Choreography	3
Dance Theory (20 hours)	
DANC 210 Rhythms and Structures of Music	1
DANC 330 Approaches to World Dance	3
DANC 340 Introduction to Laban Movement Analysis	3
DANC 370 Musculoskeletal Concepts for Dancers	3
DANC 375 Ideokinesis	3
DANC 430 Dance for Children	3
DANC 460 Dance History: Research and Reconstruction	3
DANC 530 Practicum in: _____	1
Senior Project (3 hours)	
DANC 550 Senior Project	3

Dance Minor Requirements

Students may earn a minor in dance by taking 24 to 25 hours in the courses listed below. At least 12 hours must be junior/senior-level courses with a minimum grade-point average of 2.0 in the minor.

Minimum of six hours from the technique courses listed below:	6
DANC 102, DANC 104, DANC 106, DANC 201, DANC 202, DANC 203, DANC 204, DANC 205, DANC 301, DANC 302, DANC 303, and DANC 304	
Fifteen hours from the following courses:	15
DANC 125/DANC 325, DANC 210, DANC 330, DANC 340, DANC 370, DANC 375, DANC 430, DANC 460, and DANC 480	
Three or four hours from the following courses:	3-4
DANC 150, DANC 250, and DANC 450	

Music**Applied Music Lessons**

All majors and nonmajors (as space permits) who wish to take lessons must first pass an audition. All music majors enroll in 121-level applied music courses until they have accumulated 4 credit hours (6 or 8 hours for performance majors) at which time they may enroll in the 221 level. Music majors who are not performance majors must accumulate 8 applied music hours before enrolling in the 321 level and 12 applied music hours before enrolling in the 421 level. Performance majors must accumulate 12 or 16 credit hours at the 121 and 221 levels before they enroll in 622 level. All music majors take applied music in the primary performance area for a minimum of one hour-long lesson per week at 2 to 5 credit hours per semester; others receive a half-hour lesson per week at 1 credit hour. See degrees listed in this section for specific credit-hour and recital

requirements. The summer session limit on all music major lessons is 1 to 3 credit hours.

Students may state their preferences as to teachers for private lessons, but final authority rests with the director of the division.

Music Theory Placement

The music theory placement examination is required of all undergraduate transfer students who have not completed a four-semester theory sequence with an accredited NASM school. All community college students also need to take the exam. It is administered as announced in the *Timetable of Classes*, online at www.timetable.ku.edu, each semester.

Minors in Performance

A minor in some performance areas is available to music majors who have

1. Received the approval of the appropriate performance faculty.
2. Completed a minimum of six semesters of study and a minimum of 12 credit hours.
3. Achieved a performance proficiency level equal to that of a junior performance major.
4. Made a public offering of a partial recital program.

Bachelor of Arts in Fine Arts in Music Degree Requirements

The B.A. in Fine Arts in music is offered with a concentration in musicology, music theory, piano/organ/orchestral instruments, voice, or music with an outside minor. A total of 128 to 129 credit hours is required. To graduate, a student must earn a minimum grade-point average of 3.0 in all major courses and a minimum average of 2.0 in all course work.

Basic Courses (40-44 hours)

ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
Mathematics: MATH 101 and 3 hours beyond MATH 101	6
Oral communication	3
Western civilization	6
Foreign language (16 hours in one language)	16
(Voice concentration: 10 hours of Italian and 10 hours of French or German)	
(Musicology concentration: 16 hours of French or German)	

Distribution (33-35 credit hours)

Humanities (three courses)	9
(Music with an outside minor/concentration: MUSC 440 must be included in humanities hours)	
Social sciences (three courses)	9
Natural sciences/mathematics (three courses, to include a lab science)	10-11
Non-Western culture (one course)	3
Electives	2-3
(Voice concentration: 0 hours of College electives)	
(Music with an outside minor/concentration: MUSC 586 The Business of Music must be included in electives hours)	

Music Core (29 credit hours)

MTHC 105 Theory I	4
MTHC 115 Theory II	4
MTHC 205 Theory III	4
MTHC 315 Theory IV	4
MUSC 320 Music History I	2
MUSC 340 Music History II	2
MUSC 440 Music History III	3
MUSC 480 Music History IV	3
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
REC 100 Laboratory in Music Performance (four semesters) ..	2

Choose one of the following concentrations:

Musicology Concentration (25 credit hours)

Nine hours selected from courses numbered 602-778	9
Applied music lessons	4
MUSC 499 Senior Thesis	2
Ensembles (2 hours of collegium musicum required)	4
Electives in music	6

The University Dance Company performs a varied repertoire of ballet, modern, jazz, and historic dance at the Lied Center each semester.

A dance minor is available.

The B.A. in Fine Arts in music is offered with concentrations in musicology, music theory, piano/organ/orchestral instruments, voice, and music with an outside minor/concentration.

Music Theory Concentration (25 credit hours)

Upper-division music theory courses	9
Applied music lessons	8
MTHC 499 Senior Research Project	2
Ensembles	4
Electives in music	2
Note: See MTHC professional sequence and portfolio requirements under Music Theory and Composition in this chapter of the catalog.	

Piano/Organ/Orchestral Instruments Concentration (25 credit hours)

Applied music lessons	16
Senior recital	0
Ensembles (Major ensemble required each semester)	4
Electives in music	5

Voice Concentration (25 credit hours)

Applied music lessons	16
Senior recital	0
Vocal diction	2
Vocal repertoire	2
Ensembles	4
Piano (Proficiency level of PIAN 284)	1

Music with an Outside Minor/Concentration (32 credit hours)

Applied music lessons	8
Ensembles	4
Outside minor/concentration	20

MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
COND 245 Conducting I	2
REC 100 Laboratory in Music Performance (four semesters) ...	2
ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
History of art elective	3
German, French, Italian, or Spanish	16
HIST 108, HIST 114, HIST 115	9
Electives in musicology, music theory, or College, Business or Journalism courses	9-11

Music Theory and Composition

Division Director: James Barnes
 Murphy Hall, 1530 Naismith Dr., Room 222
 Lawrence, KS 66045-3102
 (785) 864-4514, www.music.ku.edu

Degrees offered: B.M.—Theory, B.M.—Composition

To graduate, the student must maintain a minimum grade-point average of 3.0 in music theory and composition courses on both the first- and second-year and the junior/senior levels.

Students majoring in music theory (B.A. or B.M.) or music composition (B.M.) must complete MTHC 105, MTHC 115, and MTHC 205 before preparing a portfolio of their work for the MTHC faculty. The earliest that a student may submit a portfolio is the fourth semester. Transfer students must be in residence for at least one semester before they can submit a portfolio.

The portfolio must include recent work (scholarly papers for music theory and musical compositions for composers), two letters of recommendation (one from the student’s major instrument instructor and one from a MTHC professor who has had the student in a class), and a minimum grade-point average of 3.0. The student may be asked to provide a demonstration of musicality on his or her major instrument.

Portfolios are accepted once each semester for admission to the professional sequence for the following semester. The portfolio is assessed by the MTHC faculty with one of three recommendations: admit, revise and resubmit during the next semester, or denied. Students in music theory are not allowed to enroll in MTHC 499 Senior Thesis, and students in composition are not allowed to enroll in MTHC 583 Composition and MTHC 498 Senior Recital without a favorable recommendation from the faculty.

Applied Music Requirement. Students must enroll in 16 hours of applied music, including 8 hours in piano, organ, and/or harpsichord. In addition, they must pass a keyboard proficiency examination by demonstrating an ability to play all major and minor scales, short works in harmonic and contrapuntal styles, a movement of a sonata, and sight reading a keyboard accompaniment of moderate difficulty.

Degree Requirements for the Music Theory Major. In addition to the applied music requirement, a total of 129 hours is required, distributed as follows:

Music Theory (40 hours)

MTHC 105 Theory I	4
MTHC 115 Theory II	4
MTHC 205 Theory III	4
MTHC 410 Form and Analysis	3
MTHC 541 Eighteenth-century Counterpoint	3
MTHC 542 Sixteenth-century Counterpoint	3
MTHC 432 Twentieth-century Techniques Before 1945	3
MTHC 433 Techniques from 1945 to the Present	3
MTHC 499 Senior Research Project	4
MTHC 674 and MTHC 676 Orchestration I and II	6
MTHC 678 Electro-acoustic Composition I	3

Bachelor of Music Degree Requirements

Each fine arts student who is a candidate for the B.M. degree must carry a major in musicology, music theory, music composition, or music performance.

Musicology

Division Director: Paul Laird
 Murphy Hall, 1530 Naismith Dr., Room 334
 Lawrence, KS 66045-3102
 (785) 864-9716, www.music.ku.edu

Degree offered: B.M.

Degree Requirements for Musicology Majors. Students must satisfy the piano proficiency requirement. Students who enter with little or no piano background enroll in PIAN 144-PIAN 284 Keyboard Skills plus sufficient private study to enable them to pass a proficiency examination. The examination consists of (1) demonstration of knowledge of all major and minor scales, (2) a short work in contrapuntal style, (3) a short work in harmonic style, (4) a movement of a sonata, (5) demonstration of ability to read at sight accompaniments of moderate difficulty.

To graduate, the student must attain a minimum grade-point average of 3.0 in 12 credit hours chosen from MUSC 320, MUSC 340, MUSC 440, MUSC 480, and MUSC courses numbered 650-778. A total of 129 hours is required, distributed as follows:

Musicology (28-30 hours)

MUSC 320 Music History I	2
MUSC 340 Music History II	2
MUSC 440 Music History III	3
MUSC 480 Music History IV	3
MUSC 499 Senior Thesis	2-4
Plus 12 hours selected from courses numbered 602-778	12
MUSC 654 Collegium Musicum, Vocal and/or	
MUSC 656 Collegium Musicum, Instrumental	4

Music Theory and Composition (25 hours)

MTHC 105 Theory I	4
MTHC 115 Theory II	4
MTHC 205 Theory III	4
MTHC 315 Theory IV	4
MTHC 410 Form and Analysis	3
MTHC 541 Eighteenth-century Counterpoint	3
MTHC 542 Sixteenth-century Counterpoint	3

Other (75-77 hours)

Performing organizations	8
Applied music lessons	16

Music Composition (4 hours)	
MTHC 253 Composition	4
Musicology (10 hours)	
MUSC 320 Music History I	2
MUSC 340 Music History II	2
MUSC 440 Music History III	3
MUSC 480 Music History IV	3
Other (75 hours)	
Applied music lessons	16
Piano	8
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
COND 245 Conducting I	2
REC 100 Laboratory in Music Performance (four semesters) ...	2
Electives, including at least 15 hours in nonmusic courses	19
Music performing organizations	8
ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
Foreign language	10

Degree Requirements for the Composition Major. A total of 129 hours is required for the degree. Courses should be distributed as described for the major in music theory with the following exceptions:

- Students with a major in composition must offer in partial fulfillment of the degree requirements a recital of approximately 45 minutes duration consisting of original works in various media.
- MTHC 499 is not required.

Music Composition	
MTHC 583 Composition	6
MTHC 498 Undergraduate Recital	1
MTHC 680 Electro-acoustic Composition II	3
Electives	
Including at least 12 hours in nonmusic courses	13

Music Performance

Course work but no degree program is offered in carillon and harpsichord. Music performance majors are offered in the divisions of organ and church music, piano, strings and harp, voice, winds and percussion.

Instrumental Ensemble Policy. All undergraduate instrumental music majors (band and orchestral instruments) must audition for a major ensemble (wind ensemble, symphony orchestra, symphonic band, marching band, or a maximum of two semesters of Jazz Ensemble I). One ensemble per semester counts toward graduation requirements.

Requirements for All Performance Majors. Majors in performance must give a solo public performance in the junior year and a full-length senior recital. A performance major must be within two semesters of graduation to present a senior recital. To graduate, majors must also attain a minimum grade-point average of 3.0 in all major field courses. The following core courses are required of all majors in performance:

Music Theory (19 hours)	
MTHC 105 Theory I	4
MTHC 115 Theory II	4
MTHC 205 Theory III	4
MTHC 315 Theory IV	4
MTHC 410 Form and Analysis	3
Musicology (10 hours)	
MUSC 320 Music History I	2
MUSC 340 Music History II	2
MUSC 440 Music History III	3
MUSC 480 Music History IV	3
Technology (1 hour)	
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
Recital Attendance (2 hours)	
REC 100 Laboratory in Music Performance (four semesters) ...	2
English (9 hours)	
ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9

Organ and Church Music

Division Director: Michael Bauer
Murphy Hall, 1530 Naismith Dr., Room 346
Lawrence, KS 66045-3102
(785) 864-9744, www.music.ku.edu

The major in organ and church music is available with an emphasis in performance or in church music.

Entrance Requirements. Entrance requirements are the same as those for the piano major (see Piano).

The student is placed in the curriculum by audition. Entering students with no previous training in organ may perform their entrance audition at the piano.

Degree Requirements for the Performance Emphasis.

A piano proficiency examination is required. The examination consists of (1) demonstration of knowledge of all major and minor scales, (2) a short work in contrapuntal style, (3) a short work in harmonic style, (4) a movement of a sonata, and (5) demonstration of ability to read at sight accompaniments of moderate difficulty. A total of 126 hours is required, distributed as follows:

Music theory core (see above)	19
MTHC 541 Eighteenth-century Counterpoint	3
Musicology core (see above)	10
Applied music lessons	32
COND 245 and COND 345 Conducting I and II	4
ORGN 608 Organ Pedagogy	2
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
REC 100 Laboratory in Music Performance (four semesters)	2
Piano	4
Music performing organizations	8
ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
HWC 204 and HWC 205 Western Civilization I and II	6
Foreign language	10
Electives, including at least 12 hours in nonmusic courses; history and literature of religion recommended	16

Note: All B.M. organ majors must enroll in ORGN 320 Studio Class in Organ—Lab and ORGN 502 Master Class in Organ—Lab each semester of residence.

Degree Requirements for the Church Music Emphasis.

The same piano proficiency as for performance is required. A total of 126 hours is required. Courses should be distributed as described for the major in organ performance with the following exceptions:

- ORGN 608 is not required.
- Music performance organizations must be choral, not band, orchestra, jazz, etc.

Applied Music: Voice

Electives must also include at least 12 hours in nonmusic courses. However, recommended courses include REL 345 Christianity and REL 320 History of Judaism in the West.

Note: All B.M. church music majors must enroll in ORGN 320 Studio Class in Organ—Lab and ORGN 502 Master Class in Organ—Lab each semester of residence.

Piano

Division Director: Richard Reber
Murphy Hall, 1530 Naismith Dr., Room 310
Lawrence, KS 66045-3102
(785) 864-9643, www.music.ku.edu

Entrance Requirements. To enter the four-year degree course, the student should demonstrate systematic technical training by the ability to play correctly all major and minor scales and broken chords in octave position in all keys in moderately rapid tempo.

The student should have studied some of the standard etudes, Bach: Little Preludes, a few Bach two-part Inventions, and compositions corresponding in difficulty to Beethoven: Sonata, op. 49, no. 1; Haydn: Sonata

Tickets for KU music and theatre performances are available from the Lied Center box office, (785) 864-ARTS, or from the Murphy Hall box office, (785) 864-3982.

The Bales Organ Recital Hall, which opened in 1996, houses a 45-stop mechanical action organ built by Hellmuth Wolff et Associés, one of the finest builders of organs in the world.

KU is a charter member of the National Association of Schools of Music.

in C Major; Schubert: Scherzo in B-flat Major; Mendelssohn: Easier Songs Without Words; Prokofieff: Children's Pieces, op. 65; and Debussy: Arabesque.

Degree Requirements for the Piano Major. A total of 126 hours is required, distributed as follows:

Music theory core (see above)	19
MTHC 541 Eighteenth-century Counterpoint	3
Musicology core (see above)	10
PIAN 310 Advanced Keyboard Skills	2
Applied music lessons	32
PIAN 540 and PIAN 564 Piano Pedagogy I and II	6
PIAN 643 and PIAN 644 Piano Repertoire I and II	6
Chamber music	4
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
REC 100 Laboratory in Music Performance (four semesters)	2
Music performing organizations	4
ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
Foreign language	10
Electives, including at least 12 hours in nonmusic courses	18

Strings and Harp

Division Director: Edward Laut
Murphy Hall, 1530 Naismith Dr., Room 316
Lawrence, KS 66045-3102
(785) 864-9659, www.music.ku.edu

Performance Requirement. Double bass, violin, viola, and cello students are required to play in the University Symphony Orchestra during the four years of the program, unless excused by the dean on recommendation of the conductor.

Piano Requirement. Students majoring in stringed instruments must successfully complete PIAN 284 Intermediate Keyboard Skills I or its equivalent.

Degree Requirements for the Strings Major. A minimum of 126 credit hours is required, as follows:

Music theory core (see above)	19
Advanced theory electives	2-3
Musicology core (see above)	10
Applied music lessons	36
Piano	2
Orchestra	8
Chamber music	4
REC 100 Laboratory in Music Performance (four semesters)	2
ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
Foreign language	10
Performance class 120/320	8
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
Pedagogy	1
Electives, including at least 12 hours in nonmusic courses. (Violin majors substitute 2 hours of viola for 2 hours of general electives)	11-14

Differences for Harp Majors. A minimum of 124 credit hours is required for the degree. No performance class, chamber music, or small ensemble courses are required.

Music performing organizations	6
Piano	4
MEMT 246 Fundamentals of Conducting (2) or COND 245 Conducting I (2)	2
Pedagogy	2
Electives, including at least 12 hours in nonmusic courses	21

Voice

Division Director: John Stephens
Murphy Hall, 1530 Naismith Dr., Room 306
Lawrence, KS 66045-3102
(785) 864-9617, www.music.ku.edu

Degrees offered: B.M. (voice), B.F.A. (theatre and voice)
The Division of Voice offers two programs for singers interested in opera, oratorio, concert, music theatre, or vocal teaching. Students receive training in vocal technique, languages and diction, vocal repertoire, and stage

craft. Performance opportunities range from workshops to fully staged productions, allowing students to develop their talents at the most beneficial pace.

Entrance Requirements. Applicants must sing a live audition with two memorized selections, including one in classical vocal style. All students should sing at least one selection in English; students auditioning for the sophomore level or higher must sing one selection in French, German, or Italian and provide a repertoire list of previously learned material.

Piano Proficiency. Students may satisfy the requirements for the B.M. by passing PIAN 288 Intermediate Keyboard Skills II (or equivalent) or for the B.F.A. by passing PIAN 284 Intermediate Keyboard Skills I (or equivalent).

Ensemble Participation. Eight hours of ensemble credit is required for B.M. students, and four hours is required for B.F.A. students. Ensemble credit may be earned in major choral groups and opera.

B.M. Degree Requirements for the Voice Major. A total of 127 hours is required, distributed as follows:

Music theory core (see above)	19
Musicology core (see above)	10
VOIC 120/VOIC 320 Vocal Performance	2
Applied music lessons	26
VOIC 405 and VOIC 406 Vocal Literature I and II	4
VOIC 408 Vocal Pedagogy	1
Ensembles	8
Piano	4
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
MEMT 246 Fundamentals of Conducting	2
REC 100 Laboratory in Music Performance (four semesters)	2
ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
Foreign languages, German and Italian (two semesters each)	20
VOIC 270 and VOIC 470 Lyric Diction for Singers: _____	3
TH&F elective	3
TH&F 106 Acting I	3
Electives	10

B.F.A. Degree Requirements for the Theatre and Voice Major. A total of 127 hours is required, distributed as follows:

Music theory core, except MTHC 410 (see above)	16
Musicology core (see above)	10
VOIC 120 Vocal Performance in English	1
Applied music lessons	26
VOIC 270 and VOIC 470 Lyric Diction for Singers: _____	2
VOIC 405 or VOIC 406 Vocal Literature I or II	2
TH&F 106 and TH&F 206 Acting I and II	6
TH&F 111 Make-up	1
TH&F 212 Beginning Voice and Speech for Actors	3
TH&F 213 Movement I: The Acting Instrument	3
TH&F 215 Approaching Design for Theatre and Film	3
TH&F 216 Scenic Production	2
TH&F 410 Musical Performance for the Actor	3
TH&F 406 Audition Techniques	3
TH&F 508 Fundamentals of Directing	3
Theatre elective: TH&F 220, TH&F 224, TH&F 306, TH&F 312, TH&F 313, TH&F 413, TH&F 512, TH&F 711, or TH&F 713	3
Ensembles	4
Piano	4
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
MEMT 246 Fundamentals of Conducting	2
REC 100 Laboratory in Music Performance (four semesters)	2
Foreign language (first two semesters)	10
ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
Electives	8

Wind and Percussion

Woodwind Division Director: Vince Gnojek
Murphy Hall, 1530 Naismith Dr., Room 202
Lawrence, KS 66045-3102, (785) 864-4476

Brass and Percussion Division Director: Scott Watson
120 Murphy Hall, (785) 864-9738, www.music.ku.edu

Piano Requirement. Students majoring in wind and percussion instruments must successfully complete PIAN 284 Intermediate Keyboard Skills I or its equivalent.

Degree Requirements. A total of 124 hours is required for the degree in brass and percussion, and a total of 126 hours is required for the degree in woodwinds, distributed as follows:

Music theory core (see above)	19
Two upper-division theory courses	4
Musicology core (see above)	10
Applied music lessons	32
Piano	2
Music performing organizations	8
Chamber music or ensemble	4
(Four semesters of WENS 252 or WENS 652, PENS 252 or PENS 652, or CHAM 216 or CHAM 336, normally two semesters taken in the first two years and two semesters in the junior and senior years.)	
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
REC 100 Laboratory in Music Performance (four semesters)	2
W&P 325 Wind and Percussion Pedagogy	1
MEMT 246 Fundamentals of Conducting (2) or COND 245 Conducting I (2)	2
ENGL 101, ENGL 102, and ENGL 203, ENGL 209, ENGL 210, or ENGL 211	9
Foreign language	10
Woodwinds/Brass General Elective Requirements (20-22 hours)	
Electives, including at least 12 hours in nonmusic courses:	
Brass and percussion	20
or Woodwinds	22

Transfer students who have not completed a four-semester music theory sequence at an NASM-accredited university and all community/junior college students must take the music theory placement examination.

The Kyou portal gives Lawrence and Edwards Campus students access to many online services and resources. Visit <https://students.ku.edu>.

Bachelor of Music Education in Music Education and Music Therapy Degree Requirements

Division Director: Alicia A. Clair, memt@ku.edu
Murphy Hall, 1530 Naismith Dr., Room 448
Lawrence, KS 66045-3102
(785) 864-4784, fax: (785) 864-9640, www.ku.edu/~memt

Degrees offered: B.M.E., B.M.E.—Music Therapy, M.M.E., M.M.E.—Music Therapy, Ph.D.

Music Education. The program helps students develop competence in music education. The curriculum emphasizes understanding of human behavior, musical and otherwise, and integrates with this core a variety of courses and activities that develop broad, high-level musical skills. Within the curriculum, which affords skill development in the spectrum of general music education, individual emphasis is reflected in the choice of major performance medium and performance ensembles.

Music Therapy. The program helps students develop competence for entry into the music therapy profession. The interdisciplinary curriculum emphasizes understanding of the human organism and its behavior, musical and otherwise. It includes extensive work in music, behavioral science, biological science, and liberal arts, in addition to specific academic, clinical, and research studies in music therapy.

Advising. Students interested in music education or music therapy should contact the division office immediately upon admission to KU. The division assigns an academic adviser to work with the student throughout the academic career. The undergraduate handbooks, available on the division Web site (www.ku.edu/~memt) and from the division office, 448 Murphy Hall, details procedures, suggestions, and specifications.

Persons planning to major in music education or music therapy should enter KU with appropriate per-

formance skills in voice or the instrument they intend to use as their major applied performance medium. Applicants should be prepared to audition for applied music faculty for acceptance into study of that major medium. Each music education or music therapy student must take private lessons and achieve high-level skill in the major performance medium to graduate.

Regardless of applied performance medium, each entering student should be able to sing independently, in tune, and with acceptable tone quality and loudness. Functional keyboard skills (accompanying, playing by ear, improvising, and transposing) are helpful. Prior experience working with others is helpful. Well-developed interpersonal skills are an asset.

Music Teacher Licensure Program

Teacher licensure in Kansas is a function of the Kansas State Board of Education. Individuals who complete an approved music teacher licensure program are recommended to the state for licensure in instrumental music, general music, and vocal music for grades pre-K through 12. Students must meet additional state requirements, such as passing specified standardized tests, before licenses are granted. Contact the licensure officer, 208 J.R. Pearson Hall, (785) 864-3726, for information.

Admission. Students who wish to teach music declare a major performance medium at the beginning of the first term of study and gain approval of that declaration from the appropriate applied music division of the School of Fine Arts. Music education majors are in plan MEF-BME in the School of Fine Arts.

Students pursuing the B.M.E. must apply for admission to the professional sequence on completion of the first semester of the sophomore year. Transfer students with more than 45 hours of transfer credit must complete this application the first semester of classes at KU. Students may not enroll in courses in the professional sequence before formal approval by the coordinator of the music education professional sequence program. Music education majors who have been admitted to the professional sequence are in plan MEFF-BME in the School of Fine Arts.

Admission to the music education professional sequence is based on the following minimum criteria:

1. Cumulative grade-point average of 2.75 or higher.
2. Grade-point average on the Kansas Board of Regents required core course work of 2.75 or higher.¹ Must have grades of C or higher in all 6 hours of math and 9 hours of communications/English.
3. Minimum Pre-Professional Skills Test scores of 173 in reading, 172 in writing, and 172 in mathematics. Computer-based PPST scores are acceptable. Submit original reported scores. The department makes an official copy to be attached to the application and returns the original to the student.
4. Successful completion of the application form (typed).
5. Satisfactory faculty evaluations in Music Education, Music Theory, Ensemble, and Performance Media. A special recommendation form is to be completed by each applicant's applied instructor.
6. Satisfactory faculty evaluations on all Outcomes Demonstration Rubrics and satisfactory recommendation from each applicant's applied (major performance medium) instructor. A copy of each of these required assessments must be attached to the application.

¹Required course work is listed on the application for admission to the music education professional sequence, available from the music education and music therapy division office, 448 Murphy Hall.

No student may be admitted to the professional sequence for a semester during which he or she is on probation. Application forms for admission to the music education professional sequence are available on the MEMT Web site, www.ku.edu/~memt.

Candidates are reviewed for admission periodically. Applications should be submitted to the coordinator, 448 Murphy Hall, by the fourth week of the semester before the term they plan to be admitted to the professional sequence.

The Music Education Teacher Licensure Curriculum. The B.M.E. degree requires a minimum of 149 semester credit hours distributed among general studies, the major, professional education class work, and student teaching and internship. Each student must participate in appropriate performing ensembles and demonstrate proficiency in a major applied performance medium and in other performance areas.

Course requirements for completion of the music education teacher licensure program are

General Education Requirements (45 hours)

Language Arts and Communication (12 hours)

ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
English elective	3
COMS 130 Speaker-Audience Communication	3

Behavioral and Social Sciences (9 hours)

PSYC 104 General Psychology	3
SOC/ANTH elective (S not N)	3
GEOG/POLS/ECON elective (S not N)	3

Natural Sciences and Mathematics (11 hours)

BIOL 100 Principles of Biology Lecture	3
BIOL 102 Principles of Biology Laboratory	2
MATH 101 or higher, excluding MATH 109 and MATH 110	3
Mathematics elective (MATH 101 must be a prerequisite)	3

Arts and Humanities (13 hours)

PHIL/HWC/ECIV/REL/HIST course	3
MUSC 320 Music History I	2
MUSC 340 Music History II	2
MUSC 440 Music History III	3
MUSC 480 Music History IV	3
(Musicology courses are double counted as Arts and Humanities in general education requirements.)	

Professional Education/Music Education (26 hours)

MEMT 160 Principles of Music Education	1
MEMT 250 Human Music Learning and Development	3
SPED 326 Teaching Exceptional Children and Youth in General Education	3
T&L/C&T 359 Basic Processes of Reading	1
MEMT 366 Introduction to Research in Music Therapy and Music Education	2
MEMT 367 Managing Behavior in the Musical Environment	3
MEMT 407 The Exceptional Child in Music Education	3
MEMT 420 Teaching Elementary and Secondary General Music	3
MEMT 430 Marching and Jazz Band Techniques (1) or MEMT 431 Choral Diction for Music Educators (1)	1
MEMT 450 Teaching Choral and Instrumental Music	3
MEMT 455 Psychology and Acoustics of Music	3

Student Teaching and Internship (19 hours)

MEMT 496 Practicum in Student Teaching	2
MEMT 498 Student Teaching	5
MEMT 499 Internship in Teaching Music	12

Performance Requirements (42 hours)

Major Instrument (14 hours)

121 Applied music lessons (2 semesters)	4
221 Applied music lessons (2 semesters)	4
321 Applied music lessons (2 semesters)	4
422 Senior project lessons (1 semester)	2

Ensemble: Band, Orchestra, etc. (Seven semesters, 7 hours)

Seven hours of credit representing seven semesters of participation, including experience in small ensembles

Functional Keyboard Skills (6 hours)

PIAN 144 Elementary Keyboard Skills I (or alternative)	1
PIAN 148 Elementary Keyboard Skills II (or alternative)	1
PIAN 284 Intermediate Keyboard Skills I (or alternative)	2
PIAN 288 Intermediate Keyboard Skills II (or alternative)	2

Performance Techniques (7 hours)

MEMT 113 Performance Media: Brass	1
MEMT 114 Performance Media: Woodwinds	1
MEMT 115 Performance Media: Percussion	1
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1

MEMT 117 Performance Media: Voice	1
MEMT 118 Performance Media: Strings	1
MEMT 119 Performance Media: Guitar	1
Conducting/Rehearsal Skills (8 hours)	
MEMT 230 Performance Clinic: Band	1
MEMT 231 Performance Clinic: Choral	1
MEMT 232 Performance Clinic: Orchestra	1
MEMT 246 Fundamentals of Conducting	2
MEMT 330 Rehearsal/Conducting Clinic: Band	1
MEMT 331 Rehearsal/Conducting Clinic: Choral	1
MEMT 332 Rehearsal/Conducting Clinic: Orchestra	1

Basic Musicianship Requirements (28 hours)

Music Theory and Composition (16 hours)

MTHC 105 Theory I	4
MTHC 115 Theory II	4
MTHC 205 Theory III	4
MTHC 316 Tonal Form and Post-tonal Techniques	4

Musicology (10 hours)

MUSC 320 Music History I	2
MUSC 340 Music History II	2
MUSC 440 Music History III	3
MUSC 480 Music History IV	3

Recital Attendance (Four semesters, 2 hours)

REC 100 Laboratory in Music Performance	2
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Music Therapy Program

The undergraduate music therapy program provides full preparation for entry into the profession. It culminates in the degree of Bachelor of Music Education with a major in music therapy. Graduates are prepared for general music therapy practice in a variety of settings, which may include, but are not limited to hospitals, schools, community health programs, wellness centers, and private and group settings across the age span. The KU music therapy program is approved by the American Music Therapy Association. Individuals who complete the program are eligible to take the national music therapy certification board examination. The music therapy major does not lead to professional music education teacher licensure.

Admission. Students declare a major performance medium upon admission and must audition for approval from the appropriate applied music division. Music therapy majors are in plan MTF-BME in the School of Fine Arts. Students pursuing the music therapy degree should apply for admission to the professional sequence upon completion of the first semester of the sophomore year with 50 or more KU hours. Transfer students with more than 45 hours of transfer credit must complete this application the first semester of classes at KU. Students may not enroll in courses in the professional sequence before formal approval by the coordinator of the program. Music therapy majors who have been admitted to the professional sequence are in plan MTFF-BME in the School of Fine Arts.

Admission to the music therapy professional sequence is based on the following minimum criteria:

1. Cumulative grade-point average of 2.75 or higher.
2. Grade-point average of 2.75 or higher in MEMT courses.
3. A grade of C or higher in each of the following courses: MEMT 150, MEMT 251, and MEMT 296.
4. At least 50 semester hours of college credit.
5. A signed applied music recommendation form verifying successful completion of the first semester of sophomore-level lessons.

Candidates are reviewed for admission periodically. No student may be admitted to the professional sequence for a semester during which he or she will be on academic probation. Application forms for admission to the music therapy professional sequence are available on the MEMT Web site, www.ku.edu/~memt.

The Lied Center of Kansas, a 2,020-seat performing arts hall, opened in 1993. The Lied Center features state-of-the-art production capabilities, full back-stage dressing and warm-up rooms, and generous public lobbies, courtyard, and parking areas. The facility serves the school's academic and public performing programs as well as many university-wide activities.

Requirements for the B.M.E. with a Major in Music Therapy. The degree requires a minimum of 138 semester hours of credit appropriately distributed among general studies, the major, and supporting music areas and behavioral sciences. With careful planning, the program can be completed in about four and a half years. Four academic years of study and clinical work on campus are followed by a full-time, six-month internship in an approved clinical institution.

The degree requires at least a 2.5 cumulative grade-point average in all course work and a minimum of 2.75 in all MEMT courses. All music therapy majors must demonstrate proficiency in the major applied performance medium and in other performance areas and accomplish at least 10 appropriate and acceptable individual public performances.

All students must demonstrate functional vocal skills and ability to perform accompaniments on a portable chordal instrument, such as accordion, auto-harp, guitar, or electric piano. These skills are assessed periodically throughout the program.

Course requirements for the degree are listed below:

<i>General Education Requirements</i> (40 hours)	
Language Arts and Communication (12 hours)	
ENGL 101 Composition	3
ENGL 102 Critical Reading and Writing	3
English elective	3
COMS 130 Speaker-Audience Communication	3
Behavioral Sciences (15 hours)	
PSYC 104 General Psychology	3
PSYC 350 Abnormal Psychology	3
SPED 425 Introduction to Exceptional Children and Youth	3
Behavioral science electives (6 semester credit hours chosen with consent of adviser from fields such as psychology, sociology, anthropology, special education, human development, speech and audiology, motor/psychomotor development and behavior, educational psychology)	6
Biological Sciences and Mathematics (11 hours)	
MATH 101 Algebra (or higher)	3
BIOL 100 Principles of Biology Lecture	3
BIOL 102 Principles of Biology Laboratory	2
BIOL 240 Fundamentals of Human Anatomy	3
Open Electives (2 hours)	
<i>Performance Requirements</i> (39 hours)	
Major Instrument (12 hours)	
121 Applied music lessons (2 semesters)	4
221 Applied music lessons (2 semesters)	4
321 Applied music lessons (1 semester)	2
422 Senior project lessons (1 semester)	2
Ensemble: Band, Orchestra, Chorus, etc. (8 hours)	
Eight hours, representing eight semesters of participation	8
Functional Keyboard and Performance Skills (6 hours)	
PIAN 144 Elementary Keyboard Skills I	1
PIAN 148 Elementary Keyboard Skills II	1
PIAN 284 Intermediate Keyboard Skills I	2
PIAN 288 Intermediate Keyboard Skills II	2
Class Instruments (4 hours)	
MEMT 115 Performance Media: Percussion	1
MEMT 116 Performance Media: Computers, Synthesizers, and Electronics	1
MEMT 117 Performance Media: Voice	1
MEMT 119 Performance Media: Guitar	1
Conducting/Rehearsing Skills (5 hours)	
MEMT 231 Performance Clinic: Choral	1
MEMT 246 Fundamentals of Conducting	2
MEMT 329 Rehearsal/Conducting Clinic: Nontraditional Ensemble ..	1
MEMT 331 Rehearsal/Conducting Clinic: Choral	1
<i>Musicianship & Music Therapy Requirements</i> (63-69 hours)	
MEMT Professional Core (25 hours)	
MEMT 150 Introduction to Music Therapy	3
MEMT 196 Group Leadership Skills in Music Therapy	2
MEMT 251 Clinical Techniques for Children	3
MEMT 296 Clinical Techniques for Adults	3

MEMT 366 Introduction to Research in Music Therapy and Music Education	2
MEMT 367 Managing Behavior in the Musical Environment	3
MEMT 455 Psychology and Acoustics of Music	3
MEMT 463 The Influence of Music on Behavior I	3
MEMT 464 Music in Therapy	3
MEMT Clinical Experience (10-16 hours)	
MEMT 396 Clinical Practicum	1
MEMT 396 Clinical Practicum	1
MEMT 396 Clinical Practicum	1
MEMT 396 Clinical Practicum	1
MEMT 596 Clinical Internship	6-12
Music Theory and Composition (16 hours)	
MTHC 105 Theory I	4
MTHC 115 Theory II	4
MTHC 205 Theory III	4
MTHC 316 Tonal Form and Post-tonal Techniques	4
Recital Attendance (2 hours)	
REC 100 Laboratory in Music Performance (four semesters) ...	2
Musicology and Music Literature (8 hours)	
MUSC 320 Music History I	2
MUSC 440 Music History III	3
MUSC 480 Music History IV	3
Music and Dance Department Electives (2 hours)	

Double Major in Music Education and Music Therapy

The double major in music education and music therapy leads to qualification in both fields. A double major can be planned to take advantage of overlaps in requirements between the two curricula.

Three options are available: (1) to take the music therapy and music education programs in parallel, finishing with a bachelor's degree in each field, (2) to take the music therapy program first, then complete music education licensure, or (3) to take the music education program first, then complete the music therapy graduate certification program. Information is available on the MEMT Web site, www.ku.edu/~memt.

Music Minor Requirements

Students must first audition to be accepted as music minors and then may earn a minor in music by taking 24 hours in the courses listed below. At least 12 hours must be junior/senior-level courses. A minimum grade-point average of 2.0 in the minor is required.

MTHC 105 Theory I	4
MTHC 115 Theory II	4
Applied lessons (four semesters at the 100 level, 1 credit hour per semester)	4
MUSC 336 Masterworks of Music	3
Nine credit hours to be chosen from lessons (300-level lessons are junior/senior classes—students can earn 1 credit hour per semester), ensembles, and/or music classes at the 300 level or above	9

Music and Dance Courses

● Band Courses

BAND 202 Wind Ensemble (0-1). Study and performance of literature written for wind ensembles using an instrumentation somewhat smaller than the traditional concert band. Literature ranges from early wind and band music to contemporary avant-garde wind ensemble literature. Prerequisite: Audition and permission of instructor. LAB

BAND 204 Symphonic Band (0-1). For freshmen and sophomores. Three one-hour rehearsals each week. Performances include concerts on campus and tours throughout the area. Literature includes wind music, transcriptions, and other standard concert band literature. Prerequisite: Permission of director. ACT

BAND 206 University Band (0-1). For freshmen and sophomores. This concert organization performs on campus as well as in other area concerts. The band studies and performs music from the standard band repertoire. Prerequisite: Permission of director. ACT

BAND 210 University Marching Band (0-1). Open to all qualified University students, regardless of major field. Public performances include presentation of drill-marching maneuvers and pageantry at all home football games as well as several trips each season. Three two-hour rehearsals per week. Offered fall semester only. Membership by audition. For freshmen and sophomores. ACT

BAND 404 Symphonic Band (0-1). For freshmen and sophomores. Three one-hour rehearsals each week. Performances include concerts on campus and tours throughout the area. Literature includes wind music, transcriptions, and other standard concert band literature. Prerequisite: Permission of director. ACT

BAND 406 University Band (0-1). For juniors and seniors. ACT

BAND 410 University Marching Band (0-1). For juniors and seniors. ACT

BAND 459 Scoring for Field Band (2). Primary voicings and textural possibilities for wind and percussion instruments will be stressed as these resources relate to the arranging of music for marching and pep bands at the secondary level. (Same as MTHC 459.) Prerequisite: MTHC 214. LEC

BAND 466 Directed Study (1-3). May be repeated for credit. IND

BAND 501 Workshop in: _____ (0.5-3). May be repeated for credit. IND

BAND 559 Scoring for Concert Band (2). Curriculum includes idiomatic writing, tonal balance, scoring for large percussion sections, and analysis of wind colors and instrumental combinations found in music of Holst, Vaughan Williams, Grainger, Stravinsky, Hindemith, and C. Williams. (Same as MTHC 559.) Prerequisite: MTHC 214 and MTHC 459. IND

BAND 602 Wind Ensemble (0-1). Study and performance of literature written for wind ensembles using an instrumentation somewhat smaller than the traditional concert band. Literature ranges from early wind and band music to contemporary avant-garde wind ensemble literature. Prerequisite: Audition and permission of instructor. LAB

BAND 630 Band Repertoire (2). A survey of selected band works from the standard repertoire. The works are to be analyzed in terms of style and form, and in terms of the rehearsal and performance problems inherent in the work. Also a study of the standard band repertoire from an educational viewpoint as well as from a programming viewpoint. LEC

BAND 701 Workshop in _____ (0.5-3).

● Bassoon Courses

BASN 100 Bassoon (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

BASN 121 Bassoon (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

BASN 221 Bassoon (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

BASN 300 Bassoon (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

BASN 321 Bassoon (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

BASN 421 Bassoon (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

BASN 422 Bassoon (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

BASN 622 Bassoon (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

BASN 711 Bassoon (1-4).

● Brass Courses

BRSS 252 Brass Choir (0-1). For freshmen and sophomores. Study and performance of large brass ensemble literature. May be repeated for credit. IND

BRSS 652 Brass Choir (0-1). For juniors, seniors, and graduate students. Study and performance of large brass ensemble literature. May be repeated for credit. IND

● Carillon Courses

CARI 100 Carillon (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

CARI 300 Carillon (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

CARI 621 Carillon (1-4). One or two lessons per week. For graduate students not majoring in carillon performance. May be repeated for credit. IND

CARI 711 Carillon (1-4).

● Chamber Music Courses

CHAM 215 University Camerata (0-1). For freshmen and sophomores. Rehearsal and performance of string chamber music repertoire. Prerequisite: Permission of instructor. LEC

CHAM 216 Chamber Music (0-1). For freshmen and sophomores. The study of works for various combinations of instruments. May be repeated for credit. LAB

CHAM 220 Baroque Ensemble (0-1). For freshmen and sophomores. Study and performance of seventeenth and eighteenth century chamber music using replicas of period instruments. May be repeated for credit. LAB

CHAM 254 New Music Ensemble (0-2). The performance of music in the most recent styles as well as masterworks of the 20th century. May be repeated for credit. Prerequisite: Permission of the instructor. ACT

CHAM 320 Baroque Ensemble (0-1). For juniors and seniors. Study and performance of seventeenth and eighteenth century chamber music using replicas of period instruments. May be repeated for credit. LAB

CHAM 336 Chamber Music (0-2). For juniors and seniors. The study of standard chamber music literature with or without piano. May be repeated for credit. LAB

CHAM 615 University Camerata (0-1). For juniors, seniors, and graduate students. Rehearsal and performance of string chamber music repertoire. Prerequisite: Permission of instructor. LEC

CHAM 654 New Music Ensemble (0-2). The performance of music in the most recent styles as well as masterworks of the 20th century. May be repeated for credit. Prerequisite: Permission of the instructor. ACT

● Choral Music Courses

CHOR 214 University Singers (0-1). Open through audition. Study and performance of significant choral music from the major periods of music history. For freshmen and sophomores. LAB

CHOR 216 Concert Choir (0-1). Open through audition. Study and public performance of significant choral music from the major periods of music history. For freshmen and sophomores. LAB

CHOR 218 KU Men's Glee Club (0-1). A choral ensemble for male singers. The group will study, rehearse, and perform traditional and contemporary choral music for men's chorus. A formal audition is not required. ACT

CHOR 220 Oread Consort (0-1). A select choral ensemble of 16-20 singers specializing in challenging music of all periods. Open by audition to experienced sight readers and ensemble singers. Concurrent membership in another choir encouraged. For freshmen and sophomores. LAB

CHOR 226 Women's Chorale (0-1). A choral ensemble for women singers. The group will study, rehearse, and perform traditional and contemporary choral music for women's chorus. For freshmen and sophomores. ACT

CHOR 228 Summer Chorus (0-1). A choral ensemble that meets during the summer term. ACT

CHOR 242 Chamber Choir (0-1). Intensive study and public performance of significant choral literature. Membership by audition. For freshmen and sophomores. LAB

CHOR 254 Collegium Musicum, Vocal (0-1). May be repeated for credit. (Same as MUSC 254.) Prerequisite: Permission of instructor. ACT

CHOR 410 Choral Practicum (1). A choral ensemble directed by student conductors under the supervision of the choral faculty. ACT

CHOR 414 University Singers (0-1). Open through audition. Study and performance of significant choral music from the major periods of music history. For juniors and seniors. LAB

CHOR 416 Concert Choir (0-1). Open through audition. Study and public performance of significant choral music from the major periods of music history. For juniors and seniors. LAB

CHOR 418 KU Men's Glee Club (0-1). A choral ensemble for male singers. The group will study, rehearse, and perform traditional and contemporary choral music for men's chorus. A formal audition is not required. ACT

CHOR 424 Opera Chorus (1). A chorus for opera or musical theatre productions. Open by audition in conjunction with the theatre department. LAB

CHOR 446 Women's Chorale (0-1). A choral ensemble for women singers. The group will study, rehearse, and perform traditional and contemporary choral music for women's chorus. For juniors and seniors. LAB

CHOR 620 Oread Consort (0-1). A select choral ensemble of 16-20 singers specializing in challenging music of all periods. Open by audition to experienced sight readers and ensemble singers. Concurrent membership in another choir encouraged. For juniors, seniors, and graduate students. LAB

CHOR 628 Summer Chorus (0-1). A choral ensemble that meets during the summer term. ACT

CHOR 630 Choral Repertoire (2). A survey of selected choral repertoire available for the high school choral conductor. Both sacred and secular choral literature from the major periods of music history will be studied and analyzed in terms of the problems therein which may be encountered by high school choral conductors. Fall semester and

summer only. Prerequisite: MEMT 246, MEMT 330, MEMT 700, and/or consent of instructor. LEC

CHOR 642 Chamber Choir (0-1). Intensive study and public performance of significant choral literature. Membership by audition. For juniors, seniors, and graduate students. LAB

CHOR 654 Collegium Musicum, Vocal (0-1). May be repeated for credit. (Same as MUSC 654.) Prerequisite: Permission of instructor. ACT

CHOR 701 Workshop in: _____ (0.5-3).

● Clarinet Courses

CLAR 100 Clarinet (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

CLAR 121 Clarinet (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

CLAR 221 Clarinet (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

CLAR 300 Clarinet (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

CLAR 321 Clarinet (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

CLAR 421 Clarinet (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

CLAR 422 Clarinet (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

CLAR 622 Clarinet (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

CLAR 711 Clarinet (1-4).

● Conducting Courses

COND 245 Conducting I (2). An introduction to the principles of conducting through exercises and musical examples designed to develop a specific technical skill. A study of the basic conducting patterns and their application. Prerequisite: MTHC 114, MTHC 118, and MTHC 122. IND

COND 345 Conducting II (2). A continuation of COND 245. Prerequisite: COND 245. IND

COND 711 Choral Conducting I (2).

COND 712 Choral Conducting II (2).

COND 745 Instrumental Conducting (2).

COND 791 Score Reading (2).

● Dance Courses

DANC 101 Beginning Ballet I (1.50). Classical and modern approaches to the language of ballet. May be repeated for credit. Does not count toward the 52 hours required in dance. ACT

DANC 102 Beginning Ballet II (1.50). May be repeated for credit. Does not count toward the 52 hours required in dance. Prerequisite: DANC 101 or consent of instructor. ACT

DANC 103 Beginning Modern Dance I (1.50). Dance technique with precedents in the movement vocabularies of Isadora Duncan, Martha Graham, Doris Humphrey, Merce Cunningham, and the seminal choreographers of modern dance. May be repeated for credit. Does not count toward the 52 hours required in dance. ACT

DANC 104 Beginning Modern Dance II (1.50). May be repeated for credit. Does not count toward the 52 hours required in dance. Prerequisite: DANC 103 or permission of instructor. ACT

DANC 105 Beginning Jazz Dance I (1.50). Basic dance techniques based upon the musical elements of jazz. May be repeated for credit. Does not count toward the 52 hours required in dance. ACT

DANC 106 Beginning Jazz II (1.50). May be repeated for credit. Does not count toward the 52 hours required in dance. Prerequisite: DANC 105 or consent of instructor. ACT

DANC 108 Pas de Deux (1). The elements of classical ballet partnering (pas de deux) are explored. These elements include supported poses, turns, lifts, and their coordination between the partners. For men only. Women enroll in Pointe and Pas de Deux, DANC 307. May be repeated for credit. ACT

DANC 109 Men's Ballet (2). An introduction to classical ballet focusing on the particular requirements of the male ballet technique including leaps, turns, batterie, and their presentation. May be repeated for credit. ACT

DANC 125 Movement Efficiency for Athletes (3). A course designed to improve athletic performance potential by improving initiation and follow-through of movement; improving coordination, timing, and ease of action; and reducing the risk of injury through better technique. Students will learn how to apply the basic principles of Rudolf Laban and Ir-

mgard Bartenieff to the specialized movement skills of various sports. Students will also learn to develop individualized warm-ups and drills to improve performance. Prerequisite: Participation in team sports, dance, martial arts, other skilled sport movement, or consent of instructor. ACT

DANC 150 Dance Improvisation (2). Developing skills in perception and the rapid translation of ideas into dance. Central to the course will be exposure to a variety of stimuli from music and the visual arts, to nature and people on the streets. Prerequisite: DANC 104 or consent of instructor. ACT

DANC 170 Conditioning and Injury Prevention for Dancers (1). This course introduces principles of conditioning (strength, flexibility, and endurance) and factors leading to injury (muscular imbalances, structural problems, postural deviations, improper mechanics, or techniques) so that students can develop individualized conditioning programs and learn how to prevent injuries. LEC

DANC 201 Intermediate Ballet I (1-2). May be repeated for variable credit. Prerequisite: DANC 102 or consent of instructor. LAB

DANC 202 Intermediate Ballet II (1-2). May be repeated for variable credit. Prerequisite: DANC 201 or consent of instructor. LAB

DANC 203 Intermediate Modern Dance I (1-2). May be repeated for variable credit. Prerequisite: DANC 104 or consent of instructor. LAB

DANC 204 Intermediate Modern Dance II (1-2). May be repeated for variable credit. Prerequisite: DANC 203 or consent of instructor. LAB

DANC 205 Intermediate Jazz Dance (1-2). Intermediate dance techniques based upon the musical elements of jazz. May be repeated for variable credit. Prerequisite: DANC 105 or consent of instructor. LAB

DANC 210 Rhythms and Structures of Music (1). An introduction to the analysis and use of rhythms and the compositional forms of music for dance. LEC

DANC 214 Movement: Masks and Martial Arts (3). The expressiveness of the body is explored and developed through the use of masks. This approach urges the body to move according to the expression on the mask. In addition, concentration and focus of energy, rhythm, direction, and effectiveness of movement are studied through the application of Japanese martial arts such as aikido and karate. (Same as TH&F 214.) LEC

DANC 220 Dance Performance (1). A dance repertory and performance class with emphasis on developing skills for performing ballet, modern, jazz, historic, and/or forms of theatrical dance. May be repeated for credit. Prerequisite: 200- or 300-level dance technique course. ACT

DANC 230 Introduction to African Dance Theatre (2). NW An introduction to the general techniques of non-verbal theatrical conventions in African cultures. Practical training in movement vocabulary will be supplemented by lectures on the "text" of performance. (Same as AAAS 334 and TH&F 226.) LEC

DANC 240 Introduction to Classical East Indian Dance (3). Classical East Indian dance has an extensive movement vocabulary that emphasizes the coordination of rhythmic foot patterns with intricate hand gestures. Students will learn the mudras (hand gestures) and their significance and integration within each dance. Readings will include excerpts from the Natya Sastra and other treatises of East Indian dance and culture. LEC

DANC 250 Choreography: Structured Solos (2). Movement studies for solo figure based on exploration of the fundamental ingredients of dance (space, time, weight, and energy flow) and how to organize them into short compositional forms such as ABA, verse/refrain, or narrative. Prerequisite: DANC 150 and DANC 203 or consent of instructor. LEC

DANC 260 Musical Theatre Dance (2). This course focuses on the dance and movement vocabulary uniquely associated with musical theatre productions, as well as a variety of popular dance styles from the 1920s to the present. Performance techniques for the stage are emphasized. ACT

DANC 301 Advanced Ballet I (1-3). Advanced level technique in classical and modern approaches to the language of ballet. May be repeated for variable credit. Prerequisite: DANC 202 or consent of instructor. LAB

DANC 302 Advanced Ballet II (1-3). Advanced level technique in classical and modern approaches to the language of ballet. May be repeated for variable credit. Prerequisite: DANC 301 or consent of instructor. LAB

DANC 303 Advanced Modern Dance I (1-3). May be repeated for variable credit. Prerequisite: DANC 204. LAB

DANC 304 Advanced Modern Dance II (1-3). May be repeated for variable credit. Prerequisite: DANC 303. LAB

DANC 305 Advanced Jazz Dance (3). Advanced dance techniques based upon the musical elements of jazz. This course will concentrate on jazz dance as a performing art and its use in various commercial mediums. May be repeated for credit. Prerequisite: DANC 205 or consent of instructor. LAB

DANC 307 Pointe and Pas de Deux (2). An introduction to pointe and classical partnering work for the intermediate/advanced female ballet dancer, with equal emphasis on pointe technique and style, and on classical repertory for couples. May be repeated for credit. Prerequisite: DANC 201 or consent of instructor. LAB

DANC 308 Pas de Deux (1). The exploration of classical ballet partnering (pas de deux) including supported poses, lifts, turns, and their

All music majors enroll in 121-level applied music courses until they have accumulated 4 credit hours (6 or 8 hours for performance majors) at which time they may enroll in the 221 level.

The collegium musicum presents performances of early vocal and instrumental music, using KU's collection of replicas of early instruments.

coordination between the partners. For men only. Women enroll in Pointe and Pas de Deux, DANC 307. May be repeated for credit. Prerequisite: DANC 108, DANC 201, or permission of instructor. LAB

DANC 309 Men's Ballet (2). A continuation of the study of male classical ballet technique including leaps, turns, batterie, and their presentation. May be repeated for credit. Prerequisite: DANC 109, DANC 201, or permission of instructor. LAB

DANC 310 Music for Dance (3). An examination of music as accompaniment for dance in both classroom and performance settings. Students will listen and analyze music from various historic periods to develop the skills necessary to select music appropriate for choreography. They will learn techniques for working with accompanists and composers. Prerequisite: DANC 210 or consent of instructor. LEC

DANC 320 University Dance Company (0-1). A dance repertory, performance and production class. Emphasis is on the development of skills for performing and/or producing dance concerts. Admission by audition only. May be repeated for credit. LAB

DANC 325 Movement Efficiency for Athletes (3). A course designed to improve athletic performance potential by improving initiation and follow-through of movement; improving coordination, timing, and ease of action; and reducing the risk of injury through better technique. Students will learn how to apply the basic principles of Rudolf Laban and Irmgard Bartenieff to the specialized movement skills of various sports. Students also will learn to develop individualized warm-ups and drills to improve performance. Prerequisite: Participation in team sports, dance, martial arts, other skilled sport movement, or consent of instructor. ACT

DANC 330 Approaches to World Dance (3). HL This course examines dance forms from throughout the world and how they relate to the times and cultures in which they evolved. Dance forms such as African, East Indian classical, European court dance, ballet, modern, and jazz will be studied through readings, master classes, live performances, videotapes, and films. Prerequisite: 200-level English course. LEC

DANC 340 Introduction to Laban Movement Analysis (3). This course will introduce both the theoretical and physical applications of Laban Movement Analysis: Effort/Shape Notation (a notation system recording changes in movement qualities with respect to time, weight, space, and energy flow); Space Harmony (a system that describes human movement in relation to space); Bartenieff Movement Fundamentals (a series of basic exercises to integrate and facilitate the neuromuscular connections within the body) and Labanotation (a symbolic movement notation system). LAB

DANC 350 Choreography: Group Forms (3). In-depth development of movement themes for duet, trio, and larger groups. At least one concert length work with plans for presentation to an audience will be required. Prerequisite: DANC 250 or consent of instructor. LAB

DANC 360 Repertory (2). Students will learn and rehearse works by various choreographers in a range of dance styles. May be repeated for credit. LAB

DANC 370 Musculoskeletal Concepts for Dancers (3). A study of anatomical and mechanical principles affecting the structure and function of the musculoskeletal system. Laboratory application of these principles will specifically examine the movements required in dance training. LEC

DANC 375 Ideokinesis (3). Basic concepts of neuromuscular education for the dancer through the use of ideokinesis. This class will focus on application of the work of Mabel Todd, Lulu Sweigard, and Irmgard Bartenieff. Emphasis will be on the neuromuscular and skeletal systems, dynamic alignment, body connectedness, prevention of injury, and maximum realization of movement potential. Prerequisite: DANC 370 or permission of instructor. LEC

DANC 430 Dance for Children (3). Methods and materials for teaching creative dance and the fundamentals of dance technique to children. Lessons are prepared and tested in the classroom and then presented to elementary school children. Prerequisite: DANC 203 or consent of instructor. LEC

DANC 440 Introduction to Classical East Indian Dance (3). NW Classical East Indian dance has an extensive movement vocabulary that emphasizes the coordination of rhythmic foot patterns with intricate hand gestures. Students will learn the mudras (hand gestures) and their significance and integration within each dance. Readings will include excerpts from the Natya Sastra and other treatises of East Indian dance and culture. LEC

DANC 450 Environmental Choreography (3). Designing dances for non-traditional performing spaces both indoors and outdoors. Students analyze how different natural and built environments can affect the gesture, space, time, and overall structure of a dance composition as well as the relationship between performers and spectators. Prerequisite: DANC 350 or consent of instructor. LAB

DANC 460 Dance History: Research and Reconstruction (3). HL Through research and reconstruction, students will examine major topics in dance history, such as the meaning and function of dance in pre-industrial societies, communal and court dance in Europe from the 14th to the 19th centuries, and the transformation and development of dance as a theatre art in the modern world. Texts by dance historians and treatises by dancing masters will be supplemented by readings from fields, such as anthropology, philosophy, art history, and literature, that indicate the different ways of approaching the history of dance. LEC

DANC 470 Renaissance and Baroque Dance (3). Students will analyze, interpret, reconstruct, and perform historic dance forms, such as the galliard and minuet, by working with treatises of Renaissance and Baroque dancing masters, scholarly studies, and other documentary materials. The dance forms will be studied in relation to the music, visual arts, and literature of the period. LEC

DANC 480 Movement for Older Adults (3). This course is designed to increase knowledge and understanding of the movement problems experienced by older adults and to develop the student's ability to create movement interventions to address these concerns. Prerequisite: Open to juniors and seniors only. LEC

DANC 498 Directed Study in: ____ (1-3). Investigation of a special topic or project in aesthetics, dance history, movement analysis, production, or a creative project. A maximum of six hours may be counted toward graduation. Prerequisite: At least seven hours of credit in dance courses. IND

DANC 530 Practicum in: ____ (1). Supervised experience in teaching beginning level dance technique in the styles of ballet, jazz, or modern dance. Different approaches are analyzed, discussed, and tested in the studio. Prerequisite: Intermediate level of dance technique in the style of the practicum. FLD

DANC 540 Field Experience in Dance Teaching (1-3). Teaching ballet, modern, or jazz dance technique to children or adults with faculty supervision in an academic or community program. Prerequisite: DANC 530 and consent of instructor. FLD

DANC 550 Senior Project (3). In-depth research project in dance theory or history, or choreography project involving the complete development and presentation of a dance idea. Prerequisite: Performance option: DANC 320, DANC 350, DANC 450, TH&F 220 or TH&F 224, and permission of the dance division. Research option: DANC 340, DANC 370, DANC 375, DANC 460, and permission of the dance division. IND

DANC 580 Special Topics in Dance (1-3). A study of current developments in dance with an emphasis on performance or research. May be repeated for credit. Prerequisite: Junior or senior standing and consent of instructor. IND

DANC 598 Seminar in Dance (3). Special studies in dance. May be repeated for credit. Prerequisite: Junior or senior standing and consent of instructor. LEC

DANC 730 Study in Masks and Martial Arts (3).

DANC 735 Analysis, Criticism, and Choreography (3).

DANC 740 Introduction to Laban Movement (3).

DANC 742 Laban Movement Observation, Analysis, and Notation (3).

DANC 780 Movement for Older Adults (3).

● Double Bass Courses

DBBS 100 Double Bass (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

DBBS 120 Double Bass Performance Class (1). Studio performance of solo, ensemble, and orchestral audition repertoire for students concurrently enrolled in violin (viola, etc.) study. For freshman and sophomores (120); juniors and seniors (320); graduate student (720) (as appropriate). May be repeated for credit. LEC

DBBS 121 Double Bass (1-5). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

DBBS 221 Double Bass (1-5). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

DBBS 300 Double Bass (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

DBBS 320 Double Bass Performance Class (1). Studio performance of solo, ensemble, and orchestral audition repertoire for students concurrently enrolled in violin (viola, etc.) study. For freshman and sophomores (120); juniors and seniors (320); graduate student (720) (as appropriate). May be repeated for credit. LEC

DBBS 321 Double Bass (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

DBBS 421 Double Bass (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

DBBS 422 Double Bass (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

DBBS 622 Double Bass (1-5). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

DBBS 711 Double Bass (1-4).

DBBS 720 Double Bass Performance Class (1).

**Murphy Hall
addition houses
the Baustian
Theatre for opera
and musicals,
which includes a
black box theatre,
dressing room and
wardrobe area,
and a set
construction and
storage area.**

**The School of Fine
Arts and the
University Theatre
present yearly
musical comedy
and opera
productions.**

**KU students can
access course
information
through Enroll &
Pay, [https://
sa.ku.edu](https://sa.ku.edu).**

● Euphonium Courses

EUPH 100 Euphonium (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

EUPH 121 Euphonium (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

EUPH 221 Euphonium (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

EUPH 300 Euphonium (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

EUPH 321 Euphonium (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

EUPH 421 Euphonium (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

EUPH 422 Euphonium (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

EUPH 622 Euphonium (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

EUPH 711 Euphonium (1-4).

● Flute Courses

FLUT 100 Flute (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

FLUT 121 Flute (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

FLUT 131 Baroque Flute (1-4). One or two lessons per week. For freshmen and sophomores. May be repeated for credit. IND

FLUT 221 Flute (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

FLUT 300 Flute (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

FLUT 321 Flute (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

FLUT 331 Baroque Flute (1-4). One or two lessons per week. For juniors and seniors. May be repeated for credit. IND

FLUT 421 Flute (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

FLUT 422 Flute (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

FLUT 622 Flute (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

FLUT 711 Flute (1-4).

FLUT 731 Baroque Flute (1-4).

● French Horn Courses

FRHN 100 French Horn (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

FRHN 121 French Horn (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

FRHN 221 French Horn (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

FRHN 252 Horn Ensemble (0-1). For freshmen and sophomores. Study and performance of ensemble literature for the horn. May be repeated for credit. IND

FRHN 300 French Horn (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

FRHN 321 French Horn (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

FRHN 421 French Horn (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

FRHN 422 French Horn (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

FRHN 622 French Horn (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

FRHN 652 Horn Ensemble (0-1). For juniors, seniors, and graduate students. Study and performance of ensemble literature for the horn. May be repeated for credit. IND

FRHN 711 French Horn (1-4).

● Guitar Courses

GUIT 100 Beginning Group Guitar I (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

GUIT 102 Beginning Group Guitar II (1). A continuation of GUIT 100 or for beginning students with considerable music experience. Emphasis on guitar basics, using easy exercises, etudes, chord structure and scales, sight reading, including lead sheets. IND

GUIT 120 Intermediate Group Guitar (2). A pedagogical approach to guitar literature of medium difficulty. A survey of standard methods, etudes, and literature through group performance and individual assignments. IND

GUIT 121 Guitar (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

GUIT 122 Advanced Group Guitar (2). A survey of intermediate and advanced etudes as they apply to the representative and corresponding literature. Advanced technical studies. IND

GUIT 221 Guitar (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

GUIT 300 Guitar (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

GUIT 321 Guitar (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

GUIT 421 Guitar (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

GUIT 422 Guitar (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performing majors. IND

GUIT 622 Guitar (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

● Harp Courses

HARP 100 Harp (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

HARP 120 Harp Performance Class (1). Studio performance of solo, ensemble, and orchestral audition repertoire for students concurrently enrolled in violin (viola, etc.) study. For freshman and sophomores (120); juniors and seniors (320); graduate student (720) (as appropriate). May be repeated for credit. LEC

HARP 121 Harp (1-5). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

HARP 221 Harp (1-5). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

HARP 300 Harp (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

HARP 320 Harp Performance Class (1). Studio performance of solo, ensemble, and orchestral audition repertoire for students concurrently enrolled in violin (viola, etc.) study. For freshman and sophomores (120); juniors and seniors (320); graduate student (720) (as appropriate). May be repeated for credit. LEC

HARP 321 Harp (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

HARP 421 Harp (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

HARP 422 Harp (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

HARP 622 Harp (1-5). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

HARP 711 Harp (1-4).

HARP 720 Harp Performance Class (1).

● Harpsichord Courses

HPCD 100 Harpsichord (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

HPCD 300 Harpsichord (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

HPCD 621 Harpsichord (1-4). One or two lessons per week. For graduate students. May be repeated for credit. IND

HPCD 711 Harpsichord (1-4).

● Jazz Courses

JAZZ 124 Introduction to Jazz Improvisation (2). An introduction to fundamentals of jazz improvisation. Analysis, study, and development of jazz techniques and skills required to negotiate successfully basic jazz chord changes. Students will be required to demonstrate their understanding of jazz improvisation through class performance. For freshmen and sophomores. Prerequisite: Permission of instructor. ACT

JAZZ 208 Jazz Ensemble (0-1). For freshmen and sophomores. A performance laboratory specializing in the preparation and presentation of jazz compositions and arrangements. Designed to provide today's student musician with the background and skills necessary to function successfully as a professional studio musician, or as a teacher of popular jazz music. Prerequisite: Consent of director. ACT

JAZZ 209 Jazz Combo (0-1). Study and performance of music designed for the small jazz combo. Emphasis placed on jazz improvisation, and a survey of a wide variety of styles for this medium. Prerequisite: Permission of director. ACT

JAZZ 212 Vocal Jazz Ensemble (0-1). Study and performance of vocal jazz compositions and arrangements with emphasis on vocal jazz improvisation. Membership by audition. ACT

JAZZ 324 Introduction to Jazz Improvisation (2). An introduction to fundamentals of jazz improvisation. Analysis, study, and development of jazz techniques and skills required to negotiate successfully basic jazz "changes." Students will be required to demonstrate their understanding of jazz improvisation through class performance. For juniors and seniors. Prerequisite: Permission of instructor. ACT

JAZZ 409 Jazz Combo (0-1). Study and performance of music designed for the small jazz combo. Emphasis placed on jazz improvisation, and a survey of a wide variety of styles for this medium. Prerequisite: Permission of director. ACT

JAZZ 424 Intermediate Jazz Improvisation (2). Prerequisite: JAZZ 124 or JAZZ 324 or permission of instructor. LAB

JAZZ 608 Jazz Ensemble (0-1). For juniors, seniors, and graduate students. ACT

JAZZ 612 Vocal Jazz Ensemble (0-1). Study and performance of vocal jazz compositions and arrangements with emphasis on vocal jazz improvisation. Membership by audition. For juniors, seniors, and graduate students. ACT

JAZZ 624 Advanced Jazz Improvisation (2). Prerequisite: JAZZ 424 or permission of instructor. LAB

● Music Courses

MUS 100 Directed Study: ____ (1-4). This is an all-purpose fill in the blank course for freshmen and sophomores. It can be used when need arises. IND

MUS 140 Encounter with Music and Musicians (3). H.A study of concert and recital music as it relates to the performer and listener. Students will have interaction with professional musicians through live performances and discussions with the performers. Music performed on the concert and chamber music series and on concerts of music department faculty will be carefully examined. Baroque through modern music, jazz, and music of other cultures are the basic units in the course. Written research projects and reviews of performances are required. LEC

MUS 199 Musical Styles in Performance (1-2). A team-taught, performance-based survey for wind and string students of musical styles from the Baroque to present. Students will examine music from their perspective literature from several different perspectives including: historical, theoretical, technical, and expressive. The integration of these perspectives into the students' performance is the ultimate goal of the course. May be repeated for credit. Prerequisite: Approval of applied instrumental instructor. IND

MUS 300 Directed Studies: ____ (1-4). This is an all-purpose fill in the blank course for juniors and seniors. It can be used when need arises. IND

MUS 340 Encounter with Music and Musicians (3). H.A study of concert and recital music as it relates to the performer and listener. Students will have interaction with professional musicians through live performances and discussions with the performers. Music performed on the concert and chamber music series and on concerts of music department faculty will be carefully examined. Baroque through modern music, jazz, and music of other cultures are the basic units in the course. Written research projects and reviews of performances are required. LEC

MUS 399 Musical Styles in Performance (1-2). A team-taught, performance-based survey for wind and string students of musical styles from the Baroque to present. Students will examine music from their perspective literature from several different perspectives including: historical, theoretical, technical, and expressive. The integration of these perspectives into the students' performance is the ultimate goal of the course. May be repeated for credit. Prerequisite: Approval of applied instrumental instructor. IND

MUS 586 The Business of Music (3). A course covering commercial aspects of the music business, including publishing, copyright law, recording, live performance, the motion picture and radio business, composition, teaching, and music merchandising. Prerequisite: Consent of the instructor. LEC

MUS 686 Arts Administration: Presenting the Performing Arts (3). Considerations involved in booking, scheduling, and presenting music, theatre, and dance events. Locating and selecting artists, reading and negotiating contracts, fund raising, grant writing, working with support groups, marketing techniques, publicity, personnel, and finance management. LEC

MUS 732 Twentieth-century Techniques before 1945 (3).

MUS 733 Twentieth-century Techniques after 1945 (3).

● Music Education and Music Therapy Courses

MEMT 111 Class Guitar for Nonmajors (2). Common chords, major and minor triads and major-minor sevenths, and fundamentals of music notation for guitar. Strumming and rudimentary finger picking. Performance of simple melodies on all six strings from standard notation. May be repeated for credit. IND

MEMT 112 Performance Media: ____ (0.5-1). Laboratory class lessons in pedagogy and performance. May be repeated for credit in different specific media. LAB

MEMT 113 Performance Media: Brass (1). Knowledge and skills needed to teach brass instruments in music education settings. LAB

MEMT 114 Performance Media: Woodwinds (1). Knowledge and skills needed to teach woodwind instruments in music education settings. LAB

MEMT 115 Performance Media: Percussion (1). Knowledge and skills needed to teach and use percussion instruments in music education settings. LAB

MEMT 116 Performance Media: Computers, Synthesizers, and Electronics (1). Knowledge and skills needed to teach and use computers, synthesizers, and electronics. LAB

MEMT 117 Performance Media: Voice (1). Knowledge and skills needed to teach and use singing in music education and music therapy settings. LAB

MEMT 118 Performance Media: Strings (1). Knowledge and skills needed to teach string instruments in music education settings. LAB

MEMT 119 Performance Media: Guitar (1). Knowledge and skills needed to teach and use guitar functionally in music education and music therapy settings. LAB

MEMT 150 Introduction to Music Therapy (3). An overview of the music therapy profession including, but not limited to, history, philosophy, areas of clinical practice, necessary skills and competencies, and career opportunities. LEC

MEMT 160 Principles of Music Education (1). An overview of the music education field. History, philosophy, curricula, necessary skills and competencies for music educators, and alternative careers in music. LEC

MEMT 196 Group Leadership Skills in Music Therapy (1-4). Music therapy group leadership skills; leading group singing, playing accompanying instruments, and developing effective delivery skills. Prerequisite: MEMT 150/MEMT 823 Principles of Music Therapy. LEC

MEMT 229 Performance Clinic: ____ (1). Designed to provide students with opportunities to sing and play instruments other than their principal instrument in ensembles. Materials chosen for suitability for secondary school ensembles. Techniques for care and maintenance of the voice and instruments. May be repeated for credit. Prerequisite: Permission of instructor. LAB

MEMT 230 Performance Clinic: Band (1). Continued development of the knowledge and skills needed to teach band in music education settings. Prerequisite: MEMT 113, MEMT 114, MEMT 115, or permission of the instructor. LAB

MEMT 231 Performance Clinic: Choral (1). Continued development of the knowledge and skills needed to teach and use the singing voice in music education and music therapy settings. Prerequisite: MEMT 117 or permission of the instructor. LAB

MEMT 232 Performance Clinic: Orchestra (1). Continued development of the knowledge and skills needed to teach string instruments in music education settings. Prerequisite: MEMT 118 or permission of the instructor. LAB

MEMT 246 Fundamentals of Conducting (2). Both semesters. This course deals with the techniques of the baton, with gestures, signs, and cues as generally used in conducting choral and instrumental organiza-

KU's Psychology and Acoustics of Music Laboratory was the first university facility in the U.S. equipped for study of the influence of music on behavior.

Murphy Hall houses new state-of-the-art music education and music therapy instructional, clinical, and research complexes.

tions. It includes the essentials of techniques and interpretations in both the choral and instrumental types of ensemble performance. LAB

MEMT 250 Human Musical Learning and Development (3). Music learning and development from infancy through adulthood. Development of musical perception, cognition, performance skills, attitudes, and affective/aesthetic responses. Use of theoretical, knowledge-based rationale for building music instruction systems. LEC

MEMT 251 Clinical Techniques for Children (3). Music therapy treatment techniques (setting goals, selecting/applying treatment, monitoring/evaluating results) for children in a variety of settings. Clinical observation and application of techniques will be course components. LEC

MEMT 296 Clinical Techniques for Adults (3). Music therapy treatment techniques (setting goals, selecting/applying treatment, monitoring/evaluating results) for adults in a variety of settings. Clinical observation and application of techniques will be course components. FLD

MEMT 311 Intermediate Class Guitar (2). Instruction in playing barre chords, blues and Latin strums, major and minor scales, position studies, and special effects such as the Travis pick, hammer on, and slurring techniques. Prerequisite: MEMT 116-Guitar; or MEMT 111; or permission of instructor. IND

MEMT 329 Rehearsal/Conducting Clinic: _____ (1). Rehearsing and conducting ensembles appropriate for music education and music therapy. May be repeated for credit. Prerequisite: Permission of instructor. LAB

MEMT 330 Rehearsal/Conducting Clinic: Band (1). Knowledge and skills needed to rehearse and conduct band ensembles. Prerequisite: MEMT 230 and MEMT 246 or permission of the instructor. LAB

MEMT 331 Rehearsal/Conducting Clinic: Choral (1). Knowledge and skills needed to rehearse and conduct choral ensembles. Prerequisite: MEMT 231 and MEMT 246 or permission of the instructor. LAB

MEMT 332 Rehearsal/Conducting Clinic: Orchestra (1). Knowledge and skills needed to rehearse and conduct orchestral ensembles. Prerequisite: MEMT 232 and MEMT 246 or permission of the instructor. LAB

MEMT 341 Instructional Strategies in Music for Elementary Classroom Teachers (2). Child growth and development in music. Materials as they relate to a sequential music education curriculum in the elementary school. Prerequisite: Admission to the School of Education or the education division of the graduate school. LEC

MEMT 366 Introduction to Research in Music Therapy and Music Education (2). Investigative techniques in music therapy and music education with emphasis on small group and case study design and analysis. Prerequisite: Admission to the professional sequence in music education or music therapy or with permission from the MEMT division. LEC

MEMT 367 Managing Behavior in the Musical Environment (3). Theories and techniques for managing the music classroom and clinic setting for best professional practice. Understanding the self and environment as management factors. Field practice of management techniques. Prerequisite: MEMT 366 and admission to the professional sequence in music education therapy or with permission from the MEMT Division. LEC

MEMT 396 Clinical Practicum (1-3). Supervised clinical practice in on-campus or other approved setting. May be repeated for credit. Prerequisite: Admission to the professional sequence in music education or music therapy or with permission from the MEMT division. FLD

MEMT 407 The Exceptional Child in Music Education (3). Skills and knowledge needed to facilitate appropriate and productive integration of exceptional children and youth into music classroom settings. Prerequisite: Admission into the Music Education Professional Sequence or permission of instructor. LEC

MEMT 420 Teaching Elementary and Secondary General Music (3). Methods and materials for teaching music through singing, playing instruments, moving, listening, and creative activities to students in early childhood through adulthood, including those with disabilities. The course will also deal with music in diverse cultures and integrating music into the general curriculum. Prerequisite: Admission to the Music Education Professional Sequence. LEC

MEMT 430 Marching and Jazz Band Techniques (1). Knowledge and skill needed to teach marching and jazz techniques in music education settings. LEC

MEMT 431 Choral Diction for Music Educators (1). Knowledge and skills needed to teach choral diction in music education settings. LEC

MEMT 450 Teaching Choral and Instrumental Music (3). Application of research-based skills for curriculum development, content selection, and development of teaching strategies for choral and instrumental music programs to students in early childhood through adulthood, including those with disabilities. Prerequisite: Admission to the Music Education Professional Sequence. LEC

MEMT 454 Psychological Foundations of Musical Behavior II (2). Laboratory and field research in psychology of music. Prerequisite: MEMT 453 or concurrent enrollment. LEC

MEMT 455 Psychology and Acoustics of Music (3). Psychological and acoustical bases of music and human musical behavior. Study of

musical sound production, transmission, perception, cognition, response, and reproduction. Laboratory component and research project required. Prerequisite: Admission into the Music Education Professional Sequence. LEC

MEMT 463 The Influence of Music on Behavior I (3). A study of the various effects of music. The place of functional music in music education. Investigation of effective media and musical patterns. The relation of music to health. Prerequisite: Admission to the professional sequence in music education or music therapy or with permission of the MEMT division. LEC

MEMT 464 Music in Therapy (3). Issues examined include music therapy concepts in the development of program applications, professional marketing, and job proposals. These applications are based on theoretical constructs concerning the physiological, psychological, and social responses of persons to music. In addition, this course includes current trends in the field along with regulatory guidelines concerning practice design, implementation, evaluation, ethics, and standards of clinical practice. Prerequisite: Admission to the professional sequence in music education or music therapy or with permission of the MEMT division. LEC

MEMT 472 Music Education and Music Therapy Research Project (1-3). Clinical, laboratory, field, or historical research in music education or music therapy. Prerequisite: MEMT 366 or equivalent, and permission of instructor. RSH

MEMT 496 Practicum in Student Teaching (2). The first of two sequential requirements for Student Teaching. A supervised teaching experience in an approved school setting, with level and subject area to be selected according to the teaching field. Prerequisite: Admission into the Music Education Professional Sequence. LEC

MEMT 497 Independent Study in: _____ (1-4). Only one enrollment permitted each semester; a maximum of four hours will apply toward the bachelor's degree. Prerequisite: Recommendation of adviser and consent of instructor. IND

MEMT 498 Student Teaching (5). A supervised teaching experience in an approved school setting, with level and subject area to be selected from either elementary general music or a secondary teaching area not covered in MEMT 496. This experience is a minimum of five weeks full time experience. It will begin the spring of the Senior Year right after the new year. Prerequisite: Admission into the Music Education Professional Sequence and MEMT 496. LEC

MEMT 499 Internship in Teaching Music (12). A supervised internship experience leading to initial music teacher certification. The student assumes the total professional role as a teacher of music in an approved school setting with level and subject area to be the remaining area not experienced in MEMT 496 or MEMT 498. This experience is a minimum of twelve weeks full time experience. Prerequisite: Admission into the Music Education Professional Sequence and either completion of or concurrent enrollment with MEMT 498. LEC

MEMT 500 Student Teaching in: _____ (1-6). A supervised teaching experience in an approved school setting, with level and subject area to be selected according to the teaching field. Prerequisite: Admission to the Student Teaching program. FLD

MEMT 596 Clinical Internship (1-15). Successful completion of six months of full-time clinical experience (minimum of 1,040 hours) as a music therapy intern in an approved setting. Prerequisite: Completion of senior year in music therapy or its equivalent at the graduate level. FLD

MEMT 597 Individual Study in: _____ (1-15). Successful completion of six months of full time clinical experience (minimum of 1040 hours) as a music therapy intern in an approved setting. Prerequisite: Completion of senior year in music therapy or its equivalent at the graduate level. IND

MEMT 598 Special Course: _____ (1-5). A special course of study to meet current needs of education students — primarily for undergraduates. LEC

MEMT 616 Advanced Pedagogy and Materials: _____ (1). (FS) Techniques and materials appropriate for instruction in musical media. May be repeated for credit in different specific media. LAB

MEMT 651 Sociocultural Influences on Musical Behavior (3). Cultural and social determinants of musical behavior. Musical value systems in contemporary cultures. Prerequisite: MTHC 214 or MEMT 341 or permission of instructor. LEC

MEMT 670 Acoustics of Music (3). Study of physical aspects of sound, stressing the production, reproduction, transmission, and reception of musical sounds. Acoustics of musical instruments and auditoria, systems of tuning, wave phenomena in musical environments, behavior of the ear, and electrical analysis, synthesis, and recording are included. Laboratory. LEC

MEMT 707 Mainstreaming/Inclusion in Music Education (2).

MEMT 710 Professional Development (1).

MEMT 711 Emerging Technologies for Choral Teaching and Learning (2-3).

MEMT 750 Measurement in Music Education Professional Practice (3).

MEMT 753 Psychology and Acoustics of Music (5).

- MEMT 760 Principles of Music Therapy** (3).
MEMT 761 Clinical Techniques for Children (3).
MEMT 762 Clinical Techniques for Adults (3).
MEMT 763 The Influence of Music on Behavior I (3).
MEMT 764 Music in Therapy (3).
MEMT 772 Music Education and Music Therapy Research Project (1-3).
MEMT 780 Internship in Teaching Music: ____ (1-15).
MEMT 791 Music Education/Music Therapy Techniques: ____ (1-3).
MEMT 798 Special Course: ____ (1-5).

● Music Theory and Composition Courses

- MTHC 99 Fundamentals of Music** (2). An intensive study of music fundamentals. Music majors will be given priority, but this is open to all students. LEC
- MTHC 105 Theory I** (4). The first semester of an integrated two-year theory sequence that examines the harmonic, melodic, rhythmic, and formal organization of music while developing critical listening and keyboard skills. Prerequisite: Music major or consent of instructor. LEC
- MTHC 115 Theory II** (4). The second semester of an integrated two-year theory sequence that examines the harmonic, rhythmic, and formal organization of music while developing critical listening and keyboard skills. Prerequisite: MTHC 105. LEC
- MTHC 150 Introduction to Music Theory: Reading, Listening, Composing** (3). An introductory course for non-music majors, emphasizing western art and vernacular styles of music. Students will participate in and interact with various parameters of music through the acquisition of basic musical skills. For freshmen and sophomores. LEC
- MTHC 205 Theory III** (4). The third semester of an integrated two-year theory sequence that examines the harmonic, melodic, rhythmic, and formal organization of music while developing critical listening and keyboard skills. Prerequisite: MTHC 115. LEC
- MTHC 253 Composition** (2). For music theory and composition majors. Creative writing using basic concepts in harmony, melody, and form. May be repeated for credit. Prerequisite: MTHC 115. IND
- MTHC 315 Theory IV** (4). The fourth semester of an integrated two-year theory sequence that examines the harmonic, melodic, rhythmic, and formal organization of music while developing critical listening and keyboard skills. Prerequisite: MTHC 205. LEC
- MTHC 316 Tonal Form and Post-tonal Techniques** (4). A study of musical forms from the common practice period through the present day and analytical techniques for post-tonal music. The class is designed for music education and music therapy majors. Prerequisite: MTHC 205, music education, or music therapy major. LEC
- MTHC 350 Introduction to Music Theory: Reading, Listening, Composing** (3). An introductory course for non-music majors, emphasizing western art and vernacular styles of music. Students will participate in and interact with various parameters of music through the acquisition of basic musical skills. For juniors and seniors. LEC
- MTHC 355 Readings in Music Theory:** ____ (1-4). Investigation of a subject by means of directed readings using primary scholarly sources. Prerequisite: Consent of instructor. LEC
- MTHC 400 Graduate Theory Review: Writing Skills** (2). A survey of harmonic principles with emphasis on nineteenth and early twentieth century materials. For graduate students deficient in undergraduate harmonic theory. LEC
- MTHC 402 Graduate Theory Review: Aural Skills** (2). Development of aural and sight-reading skills using materials related to the nineteenth and twentieth centuries. For graduate students deficient in undergraduate aural theory. LEC
- MTHC 410 Form and Analysis** (3). Basis concepts. Structural analysis of binary, ternary, rondo, sonata-allegro, variations, and contrapuntal forms. Multi-movement forms. Prerequisite: MTHC 205. LEC
- MTHC 432 Twentieth-century Techniques before 1945** (3). A study and analysis of music from the turn of the century to World War II. Prerequisite: MTHC 215. LEC
- MTHC 433 Techniques from 1945 to the Present** (3). A study and analysis of music from World War II to the present. Prerequisite: MTHC 215. LEC
- MTHC 459 Scoring for Field Band** (2). Primary voicings and textural possibilities for wind and percussion instruments will be stressed as these resources relate to the arranging of music for marching and pep bands at the secondary level. (Same as BAND 459.) Prerequisite: MTHC 205. LEC
- MTHC 485 Composing and Arranging for Educational Ensembles** (2). For music majors interested in learning to write for primary and secondary educational performing groups. Emphasizes conventional tonal practices and idiomatic, accessible writing for young players. Prerequisite: MTHC 205, MTHC 484, and MTHC 459. IND
- MTHC 498 Undergraduate Recital** (1). Composition recital for undergraduate music composition majors. Prerequisite: Permission of instructor. IND

- MTHC 499 Senior Research Project** (1-4). For seniors majoring in music theory who will normally enroll for two credits in each of the last two semesters. Students will write a scholarly paper on an approved topic. IND
- MTHC 541 Eighteenth-century Counterpoint** (3). A study of eighteenth century style with analysis and original work. Prerequisite: MTHC 205. LEC
- MTHC 542 Sixteenth-century Counterpoint** (3). A study of sixteenth-century style with analysis and original work. Prerequisite: MTHC 205. LEC
- MTHC 559 Scoring for Concert Band** (2). Curriculum includes idiomatic writing, tonal balance, scoring for large percussion sections, and analysis of wind colors and instrumental combinations found in music of Holst, Vaughan Williams, Grainger, Stravinsky, Hindemith, and C. Williams. (Same as BAND 559.) Prerequisite: MTHC 205 and MTHC 459. IND
- MTHC 583 Composition** (2). Advanced composition including larger forms in a variety of media. Composition majors will present a public recital of original works during the fourth semester of enrollment. May be repeated for credit. Prerequisite: MTHC 253 or consent of instructor. IND
- MTHC 655 Readings in Music Theory:** ____ (1-4). Investigation of a subject by means of directed readings of primary scholarly sources. Prerequisite: MTHC 410 and consent of instructor. IND
- MTHC 674 Orchestration I** (3). A study of the four families of orchestral instruments (woodwinds, brass, percussion, and strings) concentrating on ranges, transpositions, timbres, and techniques of the various instruments. Scoring projects concentrate on voicing and balance within the individual choirs of the orchestra. Prerequisite: MTHC 205. LEC
- MTHC 676 Orchestration II** (3). A continuation of MTHC 674. Emphasis on scoring for full symphony orchestra and the large wind ensemble. Prerequisite: MTHC 674. LEC
- MTHC 678 Electro-acoustic Composition I** (3). Survey of concepts and practices of electronic sound synthesis. Required of music theory and composition majors, and open to other music majors by consent of department. Prerequisite: MTHC 215. LEC
- MTHC 680 Electro-acoustic Composition II** (3). Basic concepts and techniques of electronic composition. For majors in music theory and composition. Prerequisite: MTHC 678 and consent of division. LEC
- MTHC 732 Twentieth-century Techniques before 1945** (3).
MTHC 733 Twentieth-century Techniques after 1945 (3).
MTHC 741 Canon and Fugue (3).
MTHC 778 History of Music Theory (3).
MTHC 789 Seminar on Selected Topics: ____ (0.5-3).

● Musicology Courses

- MUSC 135 Masterworks of Music** (3). Honors version of MUSC 136/MUSC 336. Open only to students in the University Honors Program or by permission of instructor. Designed to aid non-music majors in developing skills needed for listening to music. Emphasis on masterworks of Western music. A student may receive credit for only one of the four courses numbers: MUSC 135, MUSC 335, MUSC 136, MUSC 336. LEC
- MUSC 136 Masterworks of Music** (3). HT H Designed to aid non-music majors in developing the skills needed for listening to music. Emphasis on masterworks of Western music. Open only to freshman and sophomore non-music majors. A student may receive credit in either MUSC 136 or MUSC 336, but not both. LEC
- MUSC 254 Collegium Musicum, Vocal** (0-1). May be repeated for credit. (Same as CHOR 254.) Prerequisite: Permission of instructor. ACT
- MUSC 256 Collegium Musicum, Instrumental** (0-1). May be repeated for credit. Prerequisite: Permission of instructor. ACT
- MUSC 298 Introduction to Jazz** (3). HT H/W A survey of the history of jazz from its beginnings in the early twentieth century to the present. Open to music and non-music majors. LEC
- MUSC 299 American Popular Song** (3). H A survey of the American popular song in the twentieth century, with an emphasis on the composer's lyricists, and performers who made them popular. LEC
- MUSC 300 Jazz Styles, 1920-1980** (3). H A detailed study of the major styles of jazz that developed between 1920 and 1980, with an emphasis on aural recognition of their characteristics. LEC
- MUSC 301 Great Innovators of Jazz** (3). H A detailed study of the most innovative and influential figures in the history of jazz. LEC
- MUSC 302 The Broadway Musical** (3). H A survey of the Broadway Musical from the early twentieth century to the present. LEC
- MUSC 303 The Film Musical** (3). A survey of the film musical from the 1920s through the 1980s. LEC
- MUSC 305 Music of Latin America** (3). H Designed for non-music majors, the course surveys the geographical and ethnographical sources of the many forms of music in Latin America. The various forms of music will be examined from historical, cultural, and stylistic perspectives. LEC

Swarthout Recital Hall has 340 seats, a concert stage, two concert grand pianos, a tonal climate governed by the shape of the ceiling, and walnut-paneled walls.

Information about performances is available on the School of Fine Arts Web site, <http://arts.ku.edu>.

MUSC 306 Introduction to Contemporary Music (3). H A survey of concert music in Europe and the United States in the twentieth century. Not open to music majors. LEC

MUSC 307 Music of Africa and the Middle East (3). Survey of the many musical traditions of Black Africa and the Middle East, emphasizing their cultural and social context. Open to both majors and non-majors. LEC

MUSC 309 History of Rock and Roll (3). H Survey of the history of rock and roll, starting with its origins in rhythm and blues and continuing to the present day. Open to both majors and non-majors. LEC

MUSC 310 History of Film Music (3). HT A survey course for non-majors on the history of film music from silent films to the present. Students will use written texts, website materials such as streaming video and audio, and regular screening in an auditorium setting for assignments and papers. LEC

MUSC 311 History of African-American Music (3). This course examines the richness and diversity of African American music and its influence on the entire American musical landscape. Beginning with African retentions in African American music, the course will trace the history and development of both written and oral traditions from 1700 to the present day. LEC

MUSC 320 Music History I (2). Introduction to world music; and Western music to 1400. Prerequisite: One year of music theory. LEC

MUSC 335 Masterworks of Music (3). Honors version of MUSC 136/MUSC 336. Open only to students in the University Honors Program or by permission of instructor. Designed to aid non-music majors in developing skills needed for listening to music. Emphasis on masterworks of Western music. A student may receive credit for only one of the four course numbers: MUSC 135, MUSC 335, MUSC 136, MUSC 336. LEC

MUSC 336 Masterworks of Music (3). HT H Designed to aid non-music majors in developing the skills needed for listening to music. Emphasis on masterworks of Western music and writing about music. Open only to junior and senior non-music majors. A student may receive credit for either MUSC 136 or MUSC 336, but not both. LEC

MUSC 337 Selected Topic in Music: ____ (1-3). HT H A selected topic in music or an interdisciplinary topic in the fine arts. The course may be repeated for credit when topic varies. Open only to non-music majors. LEC

MUSC 338 Selected Topic in Music: ____ (1-3). The course may be repeated for credit when topic varies. Open only to music majors. Prerequisite: MUSC 320 or permission of instructor. LEC

MUSC 340 Music History II (2). Western Music from 1400 to 1700. Prerequisite: MUSC 320. LEC

MUSC 394 Readings in Jazz and American Popular Music (1-3). Investigation of a subject by means of directed study of primary sources. Prerequisite: A grade of "A" or "B" in MUSC 298, or equivalent, and permission of instructor. IND

MUSC 440 Music History III (3). Western Music from 1700 to 1850. Prerequisite: MUSC 340. LEC

MUSC 480 Music History IV (3). Western music since 1850, classical and vernacular. Prerequisite: MUSC 440. LEC

MUSC 481 Music of the Middle Ages (3). A concentrated survey of Western music from about 500 to 1400. Prerequisite: MUSC 320. LEC

MUSC 482 Music of the Renaissance (3). A concentrated survey of Western music from about 1400 to 1600. Prerequisite: MUSC 340. LEC

MUSC 483 Music of the Baroque Era (3). A concentrated survey of Western music from about 1600 to 1750. Prerequisite: MUSC 340 and MUSC 440. LEC

MUSC 484 Music of the Classical Era (3). A concentrated survey of Western music from about 1750 to 1815. Prerequisite: MUSC 440. LEC

MUSC 485 Music of the Romantic Era (3). A concentrated survey of Western music from about 1815 to 1900. Prerequisite: MUSC 440 and MUSC 480. LEC

MUSC 486 Music of the Twentieth Century (3). A concentrated survey of Western music during the twentieth century. Prerequisite: MUSC 480. LEC

MUSC 487 Music in America (3). A concentrated survey of music in the United States. Prerequisite: One course in the field of musicology or permission of the instructor. LEC

MUSC 488 History of Opera (3). A concentrated survey of the history of opera. Prerequisite: MUSC 340, MUSC 440, and MUSC 480. LEC

MUSC 489 History of Chamber Music (3). A concentrated survey of the history of chamber music. Prerequisite: MUSC 440 and MUSC 480. LEC

MUSC 490 History of the Concerto (3). A concentrated survey of the history of the concerto. Prerequisite: MUSC 440 and MUSC 480. LEC

MUSC 491 History of the Symphony (3). A concentrated survey of the history of the symphony. Prerequisite: MUSC 440 and MUSC 480. LEC

MUSC 492 History of Wind Band Music (3). A chronological survey of the development of the wind band/ensemble and its music, using standard musical works from each historical period. Prerequisite: MUSC 440 and MUSC 480 or permission of the instructor. LEC

MUSC 493 History of Music Theory (3). A historical survey of music theory, both practical and speculative, from the ancient Greeks to the late twentieth century. Prerequisite: MUSC 240, MUSC 340, MUSC 440, and MUSC 480. LEC

MUSC 494 Readings in Musicology: ____ (1-3). Prerequisite: Minimum average of B in MUSC 320, MUSC 340, MUSC 440, MUSC 480 or equivalent, and permission of instructor. IND

MUSC 499 Senior Thesis (2). An original research project that will result in a scholarly paper of moderate size. May be repeated once for credit. IND

MUSC 560 Music in World Cultures (3). NW W An introduction to music as part of the cultural experience in India, Southeast Asia, the Orient, and Africa, with comparisons to Western traditions and influences on contemporary music. LEC

MUSC 650 Selected Topics in Music: ____ (0.5-3). Prerequisite: MUSC 320, MUSC 340, MUSC 440, and MUSC 480 or permission of instructor. LEC

MUSC 654 Collegium Musicum, Vocal (0-1). May be repeated for credit. (Same as CHOR 654.) Prerequisite: Permission of instructor. ACT

MUSC 655 Readings in Music Theory: ____ (1-4). Investigation of a subject by means of directed readings using primary scholarly sources. Prerequisite: MTHC 410 and consent of instructor. LEC

MUSC 656 Collegium Musicum, Instrumental (0-1). May be repeated for credit. Prerequisite: Permission of instructor. ACT

MUSC 744 Readings in Jazz and American Popular Music (1-3).

MUSC 752 Music of the Middle Ages (3).

MUSC 753 Music of the Renaissance (3).

MUSC 754 Music of the Baroque Era (3).

MUSC 755 Music of the Classical Era (3).

MUSC 756 Music of the Romantic Era (3).

MUSC 757 Music of the Twentieth Century (3).

MUSC 758 History of Musical Instruments (3).

MUSC 759 Music in America (3).

MUSC 760 History of Opera (3).

MUSC 761 History of the Mass (3).

MUSC 765 History of Chamber Music (3).

MUSC 766 History of the Concerto (3).

MUSC 767 History of the Symphony (3).

MUSC 768 History of Wind Band Music (3).

MUSC 775 History of Keyboard Music (3).

MUSC 777 History of Solo Vocal Music (3).

MUSC 778 History of Music Theory (3).

MUSC 794 Readings in Musicology: ____ (1-3).

● Oboe Courses

OBOE 100 Oboe (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

OBOE 121 Oboe (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

OBOE 131 Baroque Oboe (1-4). One or two lessons per week. For freshmen and sophomores. May be repeated for credit. IND

OBOE 221 Oboe (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

OBOE 300 Oboe (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

OBOE 321 Oboe (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

OBOE 331 Baroque Oboe (1-4). One or two lessons per week. For juniors and seniors. May be repeated for credit. IND

OBOE 421 Oboe (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

OBOE 422 Oboe (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

OBOE 622 Oboe (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

OBOE 711 Oboe (1-4).

OBOE 731 Baroque Oboe (1-4).

● Orchestra Courses

ORCH 200 University Symphony Orchestra (0-1). For freshmen and sophomores. Four hours full rehearsal and one hour sectional

(string only) rehearsal each week throughout the school year. An intensive study of the symphonic repertoire, instrumental and vocal accompaniments, and complete major opera. Two public concerts each semester and numerous out-of-town concerts, radio broadcasts, and local vespers performances. Acceptance for membership and playing positions is determined by tryout. LAB

ORCH 201 University Chamber Orchestra (1). Two hours of rehearsal per week. May be repeated for credit. Audition required. LAB

ORCH 210 Repertory Orchestra (1). A reading orchestra, emphasizing standard orchestral works from Baroque through modern periods. Open to string, wind, and percussion instrument players of the community and university. (Does not count toward ensemble requirement for students with stringed instruments emphasis.) LAB

ORCH 600 University Symphony Orchestra (0-1). For juniors, seniors, and graduate students. LAB

ORCH 601 University Chamber Orchestra (1). Two hours rehearsal per week. May be repeated for credit. Audition required. LAB

ORCH 701 Workshop in: _____ (0.5-3).

● Organ Courses

ORGN 100 Organ (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

ORGN 121 Organ (1-5). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

ORGN 221 Organ (1-5). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

ORGN 300 Organ (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

ORGN 320 Studio Class in Organ—Lab (0). Studio performance of works prepared under individual instruction. May be repeated. LAB

ORGN 321 Organ (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

ORGN 421 Organ (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

ORGN 422 Organ (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

ORGN 502 Master Class in Organ—Lab (0). A class in the performance of advanced organ repertoire. For organ majors only or by consent of instructor. May be repeated. LAB

ORGN 524 Laboratory in Organ Construction (3). Advanced tonal design and voicing techniques. Prerequisite: ORGN 522 and consent of department. LEC

ORGN 603 Institute for Organ and Church Music (1-2). A one-week intensive study program in performance, practice, and literature, advanced pedagogy, and church music. Normally offered during the summer session. May be repeated for credit. Graded S (satisfactory) or U (unsatisfactory). IND

ORGN 608 Organ Pedagogy (2). For seniors and graduate students majoring in organ or by permission of instructor. May be repeated for credit. Materials and methods of pedagogy. Lectures, discussion, demonstration teaching, planning, and evaluation. One beginning or lower level organ student assigned to each class member with teaching done under supervision of class instructor. LEC

ORGN 622 Organ (1-5). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

ORGN 702 Master Class in Organ—Lab (0).

ORGN 708 Organ Pedagogy (3).

ORGN 711 Organ (1-4).

ORGN 720 Studio Class in Organ—Lab (0).

● Percussion Courses

PCUS 100 Percussion (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

PCUS 120 Drum Set Technique (1). One lesson per week. Small group instruction. For freshmen and sophomores. A course designed to develop drum set technique, with emphasis placed on understanding the various styles of music to perform on the set: swing, jazz, rock, ethnic, Broadway shows. May be repeated for credit. IND

PCUS 121 Percussion (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

PCUS 221 Percussion (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

PCUS 300 Percussion (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

PCUS 320 Drum Set Technique (1). One lesson per week. Small group instruction. For juniors and seniors. A course designed to develop drum set technique, with emphasis placed on understanding the various styles of music to perform on the set: swing, jazz, rock, ethnic, Broadway shows. May be repeated for credit. IND

PCUS 321 Percussion (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

PCUS 421 Percussion (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

PCUS 422 Percussion (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

PCUS 622 Percussion (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

PCUS 711 Percussion (1-4).

● Percussion Ensemble Courses

PENS 252 Percussion Ensemble (0-1). For freshmen and sophomores. Study and performance of works for various percussion instrument combinations. May be repeated for credit. LAB

PENS 652 Percussion Ensemble (0-1). For juniors, seniors, and graduate students. Study and performance of works for various percussion instrument combinations. May be repeated for credit. LAB

● Piano Courses (including Accompanying)

ACMP 527 Accompanying (1-4). Individual instruction in vocal and/or instrumental accompanying. Open to junior, senior, and graduate pianists with permission of instructor. IND

ACMP 529 Performance Class in Accompanying (1). A class in the performance of vocal and instrumental accompaniment. Prerequisite: Completion of ACMP 527 or permission of instructor. IND

ACMP 727 Accompanying (1-4).

PIAN 100 Piano (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

PIAN 111 Elementary Keyboard Musicianship (2). The development of keyboard skills in sightreading, transposition, harmonization, improvisation, score reading, and playing by ear. Open to all students not majoring in music who have little or no music training. IND

PIAN 121 Piano (1-5). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

PIAN 125 Piano (1-4). Small group instruction for the development of performance abilities encouraging exploration of creative potentials and self-directed study. For freshmen and sophomores. May be repeated for credit. Prerequisite: Permission of instructor. IND

PIAN 144 Elementary Keyboard Skills I (1). The development of keyboard skills in sightreading, transposition, harmonization, improvisation, score reading, and playing by ear. Open to all music majors with little or no piano background. IND

PIAN 148 Elementary Keyboard Skills II (1). A continuation of PIAN 144. IND

PIAN 216 Chamber Music for Pianists (1-2). For freshmen and sophomores majoring in piano. The study of chamber music literature for piano and various instrumental combinations. Development of rehearsal conducting techniques and leadership skills through collaboration with other musicians. May be repeated for credit. LEC

PIAN 221 Piano (1-5). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

PIAN 227 Two-piano and Four-hand Literature (2). Instruction in two-piano and duet repertoire for performance and sight-reading by advanced keyboard performers. IND

PIAN 229 Performance Class in Accompanying (1). A class in the performance of vocal and instrumental accompaniment. Prerequisite: Completion of PIAN 227 or permission of instructor. IND

PIAN 230 Creative Jazz Piano I (1). Group instruction in techniques of playing jazz. Prerequisite: Permission of instructor. IND

PIAN 237 Accompanying for Dance (1-3). Instruction in dance accompanying. Open to freshman and sophomore pianists with permission of instructor. IND

PIAN 284 Intermediate Keyboard Skills I (2). Continuation of PIAN 148. Prerequisite: MTHC 108 or permission of instructor. IND

PIAN 288 Intermediate Keyboard Skills II (2). Continuation of PIAN 284. Prerequisite: MTHC 118 or permission of instructor. IND

The Lied Center Series includes the Concert Series, Swarthout Chamber Music Series, New Directions Series, Broadway Series, Family Series, and World Series, bringing outstanding performers to KU each year.

The Marching Jayhawks add color and excitement to KU football games.

PIAN 300 Piano (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

PIAN 310 Advanced Keyboard Skills (2). The development of functional keyboard skills in sight reading, transposition, harmonization, improvisation, score reading, and playing by ear. Prerequisite: MTHC 115 or permission of instructor. IND

PIAN 320 Piano Performance Class (1). Performances, lectures, and discussions of all aspects of performance. May be repeated for credit. Prerequisite: Consent of instructor. LAB

PIAN 321 Piano (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

PIAN 325 Piano (1-4). For juniors and seniors. Small group instruction for the development of performance abilities, encouraging exploration of creative potentials, and self-directed study. May be repeated for credit. Prerequisite: Permission of instructor. IND

PIAN 336 Chamber Music for Pianists (1-2). For juniors and seniors majoring in piano. The study of chamber music literature for piano and various instrumental combinations. Development of rehearsal conducting techniques and leadership skills through collaboration with other musicians. May be repeated for credit. LEC

PIAN 402 Master Class (1). A class in the performance of advanced piano repertoire. Enrollment by permission of the department. IND

PIAN 421 Piano (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

PIAN 422 Piano (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

PIAN 430 Creative Jazz Piano II (1). Group instruction in advanced techniques of jazz improvisation with emphasis on various styles and interpretation of leading jazz performers. Prerequisite: Permission of instructor. IND

PIAN 437 Accompanying for Dance (1-3). Instruction in dance accompanying. Open to junior and senior pianists with permission of instructor. IND

PIAN 522 Piano Technology I (1). An introduction to the principles of design, theory of operation, maintenance, and tuning of the piano. Lecture and laboratory. Open to junior, senior, and graduate students. LEC

PIAN 523 Piano Technology II (1). A continuation of PIAN 522, Piano Technology I. Application of principles of design, theory of operation, maintenance, and tuning of the piano. Prerequisite: PIAN 522. LEC

PIAN 540 Piano Pedagogy I (3). Observation and research of the techniques and materials relevant to piano instruction at the elementary to intermediate levels. Additional topics pertinent to music education to include child development, learning, communication, and group dynamics. Prerequisite: Permission of instructor. LEC

PIAN 546 Piano Pedagogy II (3). Observation and research of the techniques and materials relevant to piano instruction at the elementary to intermediate levels. Additional topics pertinent to music education to include child development, learning, communication, and group dynamics. Prerequisite: PIAN 540 or permission of instructor. LEC

PIAN 622 Piano (1-5). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

PIAN 624 Piano Workshop (1-3). A short term course covering a piano-related topic. May be repeated for credit. LEC

PIAN 640 Piano Pedagogy III (2). Practicum in piano instruction at the elementary to intermediate levels. Students enrolled for this course are expected to participate in the Children's Piano Laboratory Program or the Campus Community Program. Prerequisite: PIAN 546 or permission of instructor. FLD

PIAN 643 Piano Repertoire I (3). Study and analysis of keyboard repertoire from its beginning through the Classical period. LEC

PIAN 644 Piano Repertoire II (3). Study and analysis of keyboard repertoire of the Romantic and Modern periods. LEC

PIAN 646 Piano Pedagogy IV (1-2). Practicum in piano instruction at the elementary to intermediate levels. Prerequisite: PIAN 640 or permission of instructor. FLD

PIAN 711 Piano (1-4).

PIAN 720 Piano Performance Class (1).

● Recitals Course

REC 100 Laboratory in Music Performance (0.5). This course deals with the performance of music. The goal is to increase the understanding of music and music performance through exposure to a wide variety of repertory and performance styles, mediums, techniques, and related issues. LAB

● Recorder Courses

REC 119 Recorder (1-4). For freshmen and sophomores. Group instruction at the beginning level, two hours per week. Thirty minutes per day practice expected. May not be repeated for credit. Prerequisite: Student must read music and own an alto recorder. IND

RECO 319 Recorder (1-4). For juniors and seniors. Group instruction at the beginning level, two hours per week. Thirty minutes per day practice expected. May not be repeated for credit. Prerequisite: Student must read music and own an alto recorder. IND

● Saxophone Courses

SAXO 100 Saxophone (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

SAXO 121 Saxophone (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

SAXO 221 Saxophone (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

SAXO 300 Saxophone (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

SAXO 321 Saxophone (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

SAXO 421 Saxophone (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

SAXO 422 Saxophone (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

SAXO 622 Saxophone (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

SAXO 711 Saxophone (1-4).

● Strings Courses

STRG 424 String Pedagogy: _____ (1). Lectures, demonstrations, and discussions of such topics as physiological factors, style and interpretation, music editing, teaching materials and repertoire, planning, and evaluation. May be repeated for credit as instrument varies. IND

STRG 701 String Pedagogy Workshop (0.5-3).

● Trombone Courses

TROM 100 Trombone (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

TROM 121 Trombone (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

TROM 221 Trombone (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

TROM 252 Trombone Choir (0-1). For freshmen and sophomores. Study and performance of ensemble literature for the trombone. May be repeated for credit. IND

TROM 300 Trombone (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

TROM 321 Trombone (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

TROM 421 Trombone (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

TROM 422 Trombone (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

TROM 622 Trombone (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

TROM 652 Trombone Choir (0-1). For juniors, seniors, and graduate students. Study and performance of ensemble literature for the trombone. May be repeated for credit. IND

TROM 711 Trombone (1-4).

● Trumpet Courses

TRUM 100 Trumpet (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

TRUM 121 Trumpet (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

TRUM 221 Trumpet (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

TRUM 252 Trumpet Ensemble (0-1). For freshmen and sophomores. Study and performance of ensemble literature for the trumpet. May be repeated for credit. IND

TRUM 300 Trumpet (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

TRUM 321 Trumpet (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

TRUM 421 Trumpet (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

TRUM 422 Trumpet (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

TRUM 622 Trumpet (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

TRUM 652 Trumpet Ensemble (0-1). For juniors, seniors, and graduate students. Study and performance of ensemble literature for the trumpet. May be repeated for credit. IND

TRUM 711 Trumpet (1-4).

● Tuba Courses

TUBA 100 Tuba (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

TUBA 121 Tuba (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

TUBA 221 Tuba (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

TUBA 300 Tuba (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

TUBA 321 Tuba (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

TUBA 421 Tuba (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

TUBA 422 Tuba (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

TUBA 622 Tuba (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

TUBA 711 Tuba (1-4).

● Tuba-Euphonium Consort Courses

TUEU 252 Tuba-Euphonium Consort (0-1). For freshmen and sophomores. Study and performance of ensemble literature for the tuba and euphonium. May be repeated for credit. IND

TUEU 652 Tuba-Euphonium Consort (0-1). For juniors, seniors, and graduate students. Study and performance of ensemble literature for the tuba and euphonium. May be repeated for credit. IND

● Viola Courses

VIOA 100 Viola (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

VIOA 120 Viola Performance Class (1). Studio performance of solo, ensemble, and orchestral audition repertoire for students concurrently enrolled in violin (viola, etc.) study. For freshman and sophomores (120); juniors and seniors (320); graduate student (720) (as appropriate). May be repeated for credit. LEC

VIOA 121 Viola (1-5). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

VIOA 221 Viola (1-5). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

VIOA 300 Viola (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

VIOA 320 Viola Performance Class (1). Studio performance of solo, ensemble, and orchestral audition repertoire for students concurrently enrolled in violin (viola, etc.) study. For freshman and sophomores (120); juniors and seniors (320); graduate student (720) (as appropriate). May be repeated for credit. LEC

VIOA 321 Viola (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

VIOA 421 Viola (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

VIOA 422 Viola (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

VIOA 622 Viola (1-5). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

VIOA 711 Viola (1-4).

VIOA 720 Viola Performance Class (1).

● Violin Courses

VION 100 Violin (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

VION 120 Violin Performance Class (1). Studio performance of solo, ensemble, and orchestral audition repertoire for students concurrently enrolled in violin (viola, etc.) study. For freshman and sophomores (120); juniors and seniors (320); graduate student (720) (as appropriate). May be repeated for credit. LEC

VION 121 Violin (1-5). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

VION 131 Baroque Violin (1-4). One or two lessons per week. For freshmen and sophomores. May be repeated for credit. IND

VION 221 Violin (1-5). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

VION 300 Violin (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

VION 320 Violin Performance Class (1). Studio performance of solo, ensemble, and orchestral audition repertoire for students concurrently enrolled in violin (viola, etc.) study. For freshman and sophomores (120); juniors and seniors (320); graduate student (720) (as appropriate). May be repeated for credit. LEC

VION 321 Violin (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

VION 331 Baroque Violin (1-4). One or two lessons per week. For juniors and seniors. May be repeated for credit. IND

VION 421 Violin (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

VION 422 Violin (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

VION 511 Workshop in Stringed Instrument Care and Repair (2). Students will perform repairs such as gluing cracks, applying tail-piece gut, setting and adjusting sound posts, and rehairing bows. Proper care and maintenance of the instrument will be stressed. Prerequisite: Junior standing with a background of stringed instrument study meriting departmental approval. LAB

VION 622 Violin (1-5). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

VION 711 Violin (1-4).

VION 720 Violin Performance Class (1).

VION 731 Baroque Violin (1-4).

● Violoncello Courses

VNCL 100 Violoncello (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

VNCL 120 Cello Performance Class (1). Studio performance of solo, ensemble, and orchestral audition repertoire for students concurrently enrolled in violin (viola, etc.) study. For freshman and sophomores (120); juniors and seniors (320); graduate student (720) (as appropriate). May be repeated for credit. LEC

VNCL 121 Violoncello (1-5). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

VNCL 221 Violoncello (1-5). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (8 for performance majors). IND

VNCL 300 Violoncello (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

VNCL 320 Cello Performance Class (1). Studio performance of solo, ensemble, and orchestral audition repertoire for students con-

currently enrolled in violin (viola, etc.) study. For freshman and sophomores (120); juniors and seniors (320); graduate student (720) (as appropriate). May be repeated for credit. LEC

VNCL 321 Violoncello (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

VNCL 421 Violoncello (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

VNCL 422 Violoncello (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

VNCL 622 Violoncello (1-5). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 16 credits at the 121/221 levels. IND

VNCL 711 Violoncello (1-4).

VNCL 720 Cello Performance Class (1).

● Voice Courses

VOIC 100 Voice (1-2). Applied music lessons for freshmen and sophomores not majoring in music. May be repeated for credit. IND

VOIC 104 Class Voice (1). A study of the fundamentals of singing; performance of songs; an approach to voice instruction in a group situation. May be repeated for credit. IND

VOIC 120 Vocal Performance in English (1). Fundamentals of solo vocal performance with an emphasis on English diction and communicating the English language. IND

VOIC 121 Voice (1-4). Applied music lessons for freshmen majoring in music. May be repeated for credit. IND

VOIC 221 Voice (1-4). Applied music lessons for sophomores majoring in music. May be repeated for credit. Prerequisite: 121-level until the music major has accumulated 4 credits (6 for performance majors). IND

VOIC 270 Lyric Diction for Singers: ____ (1). Pronunciation in a specific language to be chosen from Italian, French, English, German, or other languages pertinent to the singer. Open to voice and theatre/voice majors, and to others with approval of instructor. May be repeated for credit as language varies. LEC

VOIC 300 Voice (1-2). Applied music lessons for juniors and seniors not majoring in music. May be repeated for credit. IND

VOIC 302 Repertoire for the High School Singer (1). Designed for future educators of young voices. Vocal literature and issues related to students aged thirteen to eighteen. May substitute for one semester of the studio voice requirements for Music Education majors with vocal/choral emphasis. Prerequisite: Four semesters of private voice. LEC

VOIC 320 Vocal Performance Class II (1). Solo vocal performance in a class situation with emphasis including the preparation, planning of repertoire, and interpretive skills appropriate to a recital. Designed for junior/senior voice and theatre-voice majors. Prerequisite: Permission of instructor. Eligibility for VOIC 622. IND

VOIC 321 Voice (1-2). Applied music lessons for juniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 221-level until the music major has accumulated 8 credits. IND

VOIC 405 Vocal Literature I (2). A survey of English song. LEC

VOIC 406 Vocal Literature II (2). A survey of German song. LEC

VOIC 408 Vocal Pedagogy (1). A course offering performers and beginning teachers of classical singing a basic overview of vocal production. The class will explore the empirical and scientific principles of breathing, resonance, timbre, and other vocal features. Discussions of repertoire choices, vocal health, teaching styles, career development and other topics pertaining to the training of singers will be included. LEC

VOIC 412 Vocal Pedagogy and Advanced Repertoire II (1). Continuation of VOIC 408. LEC

VOIC 421 Voice (1-2). Applied music lessons for seniors majoring in music. Not for performance majors. May be repeated for credit. Prerequisite: 321-level until the music major has accumulated 12 credits. IND

VOIC 422 Voice (1-2). Applied music lessons. Must be taken in the semester a recital is being performed and as required by the degree program. Not for performance majors. IND

VOIC 440 Vocal Performance (1). A class in the performance of vocal repertoire. IND

VOIC 470 Lyric Diction for Singers: ____ (1). Pronunciation in a specific language to be chosen from Italian, French, English, Ger-

man, or other languages pertinent to the singer. Open to voice and theatre/voice majors, and to others with approval of instructor. May be repeated for credit as language varies. LEC

VOIC 490 Opera Workshop (0-4). The study of various aspects of opera, such as character development, aria, chorus, and opera scene study, staging, body movement, and audition techniques. May be repeated for credit. ACT

VOIC 492 Opera Production (2-4). The preparation and performance of an opera role. May be repeated for credit. ACT

VOIC 500 Directed Study in: ____ (1-3). Investigation of a special topic or project. Prerequisite: Consent of instructor. IND

VOIC 520 Vocal Coaching (1). In-depth investigation of elements of vocal performance such as language, musical style, tradition, and dramatic content and the communication thereof in preparation for the senior recital. Open to undergraduates majoring in voice and the atre/voice in the senior year, with consent of instructor. IND

VOIC 622 Voice (1-4). Applied music lessons for juniors and seniors majoring in performance. May be repeated for credit. Prerequisite: Performance majors must accumulate 12 credits at the 121/221 levels. IND

VOIC 670 Advanced Lyric Diction for Singers: ____ (1). Pronunciation in a specific language to be chosen from Italian, French, English, German, or other languages pertinent to the singer. Open to graduate students in voice and opera performance, and to others with approval of instructor. May be repeated for credit as language varies. LEC

VOIC 704 Vocal Repertoire: ____ (2).

VOIC 705 Advanced Vocal Literature I (3).

VOIC 706 Advanced Vocal Literature II (3).

VOIC 707 Advanced Vocal Literature III (3).

VOIC 711 Voice (1-4).

VOIC 720 Vocal Performance Class II (1).

VOIC 740 Vocal Performance (1).

VOIC 770 Special Studies in Voice: English Lyric Diction for the Choral Singer and Soloist (1).

● Wind and Percussion Courses

W&P 125 Wind and Percussion Pedagogy (1). For freshmen and sophomores. Materials and concepts for teaching beginning and intermediate instrumental students; instrument repair, adjustments and modification; reed making and adjustment where appropriate; solo and ensemble repertoire. May not be repeated for credit. Prerequisite: MEMT 113, Brass; MEMT 114, Woodwinds; MEMT 115, Percussion; or concurrent applied instruction for the appropriate instrument (e.g. FRHN 121, PCUS 221). IND

W&P 130 Orchestral Repertoire (1). For freshmen and sophomores. Weekly reading sessions for wind, percussion and harp students with the objective of acquainting the student with important orchestral passages for his or her particular instrument. May be repeated for credit. Enrollment controlled by the instructor in charge. IND

W&P 325 Wind and Percussion Pedagogy (1). For juniors and seniors. Continuation of W&P 125. May not be repeated for credit. Prerequisite: MEMT 113, Brass; MEMT 114, Woodwinds; MEMT 115, Percussion; or concurrent applied instruction for the appropriate instrument (e.g. FRHN 321, PCUS 622). IND

W&P 630 Orchestral Repertoire (1). The study of orchestral literature for wind and percussion instruments. May be repeated for credit. Permission of instructor. IND

W&P 655 Independent Study in: ____ (1-4). Prerequisite: Consent of adviser and instructor. IND

W&P 702 Special Studies in Woodwind Instrument Pedagogy (1-3).

W&P 704 Special Studies in Brass Instrumental Pedagogy (1).

W&P 706 Advanced Pedagogy Workshops in Orchestral Instruments (0.5).

W&P 708 Special Studies in Percussion Instrument Pedagogy (1).

● Wind Ensemble Courses

WENS 252 Wind Ensemble (0-1). For freshmen and sophomores. Study and performance of original works for various wind instrument combinations. May be repeated for credit. LAB

WENS 652 Wind Ensemble (0-1). For juniors, seniors, and graduate students. Study and performance of original works for various wind instrument combinations. May be repeated for credit. LAB

Performing organizations are open to all qualified KU students through auditions.

The Bachelor of Music degree is offered with majors in musicology, music theory, music composition, organ (with organ or church music emphasis), piano, double bass, harp, viola, violin, violoncello, voice (B.M. and B.F.A.), bassoon, clarinet, euphonium, flute, French horn, oboe, percussion, saxophone, trombone, trumpet, and tuba.

William Allen White School of Journalism and Mass Communications

Ann M. Brill, Dean

**Stauffer-Flint Hall, 1435 Jayhawk Blvd., Room 200,
Lawrence, KS 66045-7575, www.journalism.ku.edu**

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Stauffer-Flint Hall, 1435 Jayhawk Blvd., Room 200
Lawrence, KS 66045-7575

jschool@ku.edu or www.journalism.ku.edu

Phone: (785) 864-4755, Fax: (785) 864-4396

Degrees offered: B.S., M.S.

The William Allen White School of Journalism and Mass Communications is guided by a set of values adopted in 1997. We value

- A diverse, collaborative, and dynamic student-centered environment.
- Excellence in learning, teaching, and mentoring.
- Free expression and conscientious, ethical journalism as cornerstones of a democratic society.
- Critical and creative thinking.
- Meaningful research and creative activity.
- Imaginative outreach and collaboration on this campus, in Kansas, and in the profession of journalism.

The mission of the school is to teach students to think critically and creatively while preparing them for careers in journalism, mass communications, and related fields and for graduate study. Graduates will

- Appreciate the value of freedom of expression and its importance in society.
- Be able to analyze mass media critically and have an ethical framework for the practice of journalism and mass communication.
- Demonstrate understanding of the value of a diverse society, a diverse workplace, and the importance of reflecting that diversity in mass media.
- Demonstrate an understanding of the impact of changing media technologies on society.
- Demonstrate effective production and presentation skills for the media.
- Demonstrate an understanding of the importance of research for adding new knowledge and an ability to employ research techniques for analysis and interpretation.
- Demonstrate an understanding of how communications organizations function and the important management issues they face.

The school prepares students for careers in advertising, corporate communications, integrated marketing communications, news, writing and editing, management, and sales in traditional media and emerging and converged media. It is accredited by the Accrediting Council on Education in Journalism and Mass Communications.

Courses for Nonmajors

All KU students may take JOUR 101 Media and Society; JOUR 310 Visual Communications; JOUR 433 Strategic Communications; JOUR 503 History of Journalism and Mass Communication; JOUR 538 International Marketing Communications; JOUR 540 Sports, Media, and Society; and JOUR 618 First Amendment and Society. Junior standing is required for JOUR 433, JOUR 503, JOUR 540, and JOUR 618. Students in professional schools who wish to take any other journalism course should consult their schools or the Journalism Advising Center/Records Office, 201 Stauffer-Flint Hall.

Admission

Students may be admitted to the school for the junior or sophomore year after preparatory work in the College of Liberal Arts and Sciences or another accredited liberal arts institution.

For students who entered college before fall 2006, there are three options. **Early admission** is available to those who have completed 30 hours in specified courses with a 3.0 cumulative grade-point average and who have an English ACT score of 27 or higher or SAT verbal score of 500 or higher. **Advanced admission** is available to those who have completed 45 hours in specified courses with a 3.0 cumulative grade-point average. Students who complete 60 hours, including required courses, with a 2.5 grade-point average may apply for **standard admission**.

For students who enter college in fall 2006 and after, there are two admission categories: **direct admission** of first-year students based on ACT or SAT scores and a high school grade-point average of 3.7 or higher, and **admission at 45 hours** with completion of all required courses and a minimum grade-point average of 2.5. Admission is competitive.

Students should enroll in JOUR 101 Media and Society during the first year. See the school's Undergraduate Requirements Guides. Prejournalism students are encouraged to become involved in campus media outlets and student organizations at the school.

Requirements

(Effective for students entering college in fall semester 2002 and after.) A student's first semester of college is the first semester in which he or she enrolls after high school graduation. The number of students admitted each semester depends on the number graduating in the preceding semester and the school's overall capacity. Candidate selection is based

Photo, page 360:
Journalism students have opportunities for hands-on television editing experience. KU's Dole Center houses journalism multimedia labs, the television studio, and KUJH-TV.

The 2006 Fiske Guide to Colleges calls KU's School of Journalism and Mass Communications a standout. The Guide says students give the school rave reviews.

KUJH-TV (channel 14 over-the-air, 31 on cable) broadcast its first news program in February 1996. Regular programming began in August 1996.

The Kyou portal gives Lawrence and Edwards Campus students access to many online services and resources. Visit <https://students.ku.edu>.

on grade-point average. Ninety percent of available spaces are filled by the candidates with the highest overall grade-point averages. The remaining 10 percent are selected from among those who petition before the deadline, provided that the student has a minimum overall grade-point average of 2.5. For admission, all grades in courses taken and retaken at KU are used in calculating the grade-point average.

To apply for admission, a qualified candidate must submit a Change of School form to the Journalism Advising Center/Records Office, 201 Stauffer-Flint Hall, by the deadline for the following semester. For summer or fall admission, the deadline is February 1. For spring admission, the deadline is September 1.

To petition for admission, students should consult the Journalism Advising Center/Records Office. In reviewing petitions, the school considers elements such as ACT scores, socioeconomic factors, academic progress, and commitment to the profession.

First- and Second-year Requirements. (Effective for students entering college in fall 2002 and after.)

JOUR 101 Media and Society with a grade of 2.0 or above.
Three KU courses in English composition and/or literature with a grade-point average of 2.67 or above including ENGL 101 (or exemption) and ENGL 102 or ENGL 105 (or exemption or advanced placement) and one of the following courses: ENGL 203, ENGL 205, ENGL 209, ENGL 210, or ENGL 211. When any English courses are transferred, a student must have either a 3.0 grade-point average or a 2.67 grade-point average plus an English ACT score of 25 or above. A student with an English ACT score of 31 or higher is exempt from ENGL 101.

One of the following: MATH 105, MATH 106, MATH 111, MATH 115, MATH 121, MATH 141, MATH 365, or BIOL 570. If a student takes MATH 002, those 3 credit hours do not count toward the 124 needed for graduation.

COMS 130 or COMS 230 or exemption for one year of high school work with a grade of 3.0 or higher.

One 4- or 5-credit-hour natural science course with a laboratory. A principal course in humanities designated H by the College of Liberal Arts and Sciences.

A principal course in a social science designated S by the College of Liberal Arts and Sciences.

A basic economics course (ECON 104 or ECON 142 or ECON 144 or equivalent).

Completion of a foreign language through the second course. Completion of a foreign language through the fourth course is required for graduation. Students should complete the foreign language requirement during the first two years.

Students Beginning College Before Fall 2006.

Courses Required for Early Admission at 30 Hours.

Students must complete JOUR 101 with a 2.0 grade or higher or be enrolled in it, complete ENGL 101 with a 3.0 grade or higher or be exempt from it, be enrolled in ENGL 102 or ENGL 105, complete or be enrolled in MATH 101, and complete the oral communications requirement or a distribution course in humanities or social sciences or laboratory science. If the first two required English courses have been completed, the student's English grades must average 3.0 or higher. If all three required English courses have been completed, the grades must average 2.67 or higher.

Students Beginning College in Fall 2006 or After.

Beginning in fall 2006, students may be *directly admitted* to journalism or may be *admissible at 45 hours*. A *directly admitted student* must complete all courses listed as first- and second-year requirements within the first 45 hours and must maintain a 2.5 cumulative grade-point average. The English grade-point average must be 2.67 if all English courses are taken at KU and 3.0 if any English courses are transferred.

A student who begins college in fall 2006 or after and is not eligible for direct admission enters the College of Liberal Arts and Sciences as a prejournalism major and will be eligible to *apply to journalism at 45 hours* when grade-point average and admission course requirements are met. The courses listed as first- and second-year requirements must be completed and the student's grade-point average must be 2.5 or higher. Admission is competitive based on cumulative grade-point average.

Students who began college before fall 2002 should see the Journalism Advising Center/Records Office, 201 Stauffer-Flint Hall, for requirements applicable to them.

Transfer Students. Transfer students may be admitted provisionally even if they have not completed JOUR 101 Media and Society. They must enroll in JOUR 101 during their first semester at KU.

Admission requirements are subject to change.

Visit Our Web Site

The School of Journalism and Mass Communications Web site, www.journalism.ku.edu, has current information. Visit the Web site for information about journalism programs, facilities, services, resources, policies, and procedures, as well as current information about the school's many active student organizations.

Advising

All students admitted to journalism should be advised in the Journalism Advising Center, 201 Stauffer-Flint Hall. Admitted students also should see their assigned faculty mentors. First-year prejournalism students may be advised in the Freshman-Sophomore Advising Center, 126 Strong Hall, www.advising.ku.edu.

Facilities

The school's classrooms, laboratories, student media, and faculty offices are in Stauffer-Flint Hall and the Dole Center. The school's main office, Advising Center/Records Office, Journalism Resource Center, and *The University Daily Kansan* are in Stauffer-Flint, as are the offices of the Accrediting Council on Education in Journalism and Mass Communications and the Kansas Scholastic Press Association. The Dole Center houses multimedia labs, the television studio, and KUJH-TV.

Journalism Resource Center

Professional publications, copies of major national and state newspapers, and reference and research materials are available in the Journalism Resource Center, 210 Stauffer-Flint Hall. Computers for student use are available there.

Journalism Career Center

The Career Center, 210 Stauffer-Flint Hall, helps students find internships and jobs. Each year, leading media outlets, advertising agencies, and corporations in the state and the nation visit campus to interview students. The Career Center also maintains an online database of internships and jobs that is updated daily.

Internships

Through the Journalism Career Center, the school enables students to gain professional experience working as interns. Internships vary in time of year, duration, location, compensation, and required course work or other experience. Many students complete internships during the summer, but they also are available during the school year. At the time of admission to the school, the student must pay a one-time fee to register with the Career Center. Staff members provide further guidance on opportunities and requirements.

University Honors Program and Study Abroad

The school encourages all qualified students to participate in the University Honors Program and all interested students to study abroad. For information, see the appropriate sections of this catalog.

The school has an academic exchange with the University of Costa Rica and offers internships with Costa Rican media outlets. The school also offers courses at the KU campus in Paderno, Italy.

Financial Aid

All students with financial need should apply to the Office of Student Financial Aid. The Office of Admissions and Scholarships awards scholarships to incoming first-year students based on academic merit. The School of Journalism and Mass Communications has a limited number of scholarships provided by donors who often specify the majors or the geographic areas from which recipients may be selected. Most scholarships from the school are reserved for students already enrolled in journalism courses. To receive a need-based scholarship from journalism, the student must have submitted the FAFSA form and been determined to be eligible. Merit-based scholarships also are offered. Applications are available beginning January 2 from the scholarship coordinator, 200 Stauffer-Flint Hall. The application deadline is February 14.

Notices of scholarships awarded by national journalism organizations are posted in Stauffer-Flint Hall and the Dole Center when they are received.

See Undergraduate Admission and Scholarships and Financial Aid in the General Information chapter.

Regulations

For information about University of Kansas regulations, see the General Regulations chapter of this catalog.

Bachelor of Science in Journalism

Graduation Requirements

In addition to admission requirements, the following graduation requirements must be met:

1. The candidate must have earned at least 124 hours of college credit. This total is increased if the student has taken MATH 002, more than 39 hours of journalism, more than 4 hours of physical education activities, more than 4 hours of military science, or more than 15 miscellaneous non-liberal-arts hours. Only 12 transfer hours in journalism may be counted toward the 124

hours needed for graduation. A maximum of 64 hours may be transferred from a community college.

2. The candidate must have completed a minimum of 30 hours and no more than 39 hours in journalism courses within the 124-hour total.

3. The candidate must have at least a 2.5 grade-point average overall and in all journalism courses.

4. The candidate must have earned at least 45 hours in upper-division courses, numbered 300 and above.

5. The candidate must have the equivalent of 16 semester hours of college work in one foreign language. Proficiency through the fourth course is required.

6. The candidate must have completed HWC 204 and HWC 205 or HWC 114 and HWC 115. These courses do not count in an HWC three-by-three area distribution block.

7. For those who were first-year students in fall 2002 and after, completion of a second-level mathematics course is required for admission.

8. The candidate must have completed an approved non-Western culture course.

9. The candidate must complete area distribution requirements in one of three ways: (a) a three-by-three or (b) an 18-hour minor plus a 9-hour concentration or (c) a major in the College of Liberal Arts and Sciences.

a. The candidate may complete the three-by-three area distribution by taking three courses in one department of the College of Liberal Arts and Sciences designated humanities, three courses in one CLAS department designated social science, and three courses in one other CLAS department. Each group of three courses must include at least one that is numbered 300 or above. Each group of three courses may include one 2-hour course. Two of the three courses must be offered for at least 3 hours of credit. Courses listed as undesignated (U) may not be used for area distribution requirements. These include but are not limited to ENGL 101 and ENGL 102, MATH 002 and MATH 101, COMS 130 and COMS 230, HWC 114 and HWC 115, or HWC 204 and HWC 205.

Approved areas in the humanities are classics, communication studies (H), East Asian languages and cultures, English, French and Italian, Germanic languages and literatures, history, history of art, humanities and Western civilization (except HWC 114-HWC 115 and HWC 204-HWC 205), linguistics (H), music history, philosophy, religious studies, Slavic languages and literatures, Spanish and Portuguese, and theatre and film (H).

Approved areas in social sciences are anthropology (S), applied behavioral science, communication studies (S), economics, geography (S), linguistics (S), political science, psychology, and sociology.

Area studies programs that offer at least three designated courses may be taken to fulfill one of the required blocks. Students also may take the third block of courses in one of the natural sciences or mathematics.

b. The candidate may complete an approved minor in a department of the College of Liberal Arts and Sciences plus a 3-course concentration in another CLAS department. The concentration must have a designation different from that of the minor. For example, if the minor is in a humanities department, the concentration must be in a social science or natural science department, and one course in the concentration must be numbered 300 or above. No substitutions in the courses that constitute the minor are allowed. Students who choose the minor and concentration option are responsible for declaring the minor in College Student Academic Services, 109 Strong Hall.

c. The candidate may complete a CLAS major. A major is all the courses that a given department requires for the major, including area distribution courses. Students who opt for the double major must be dually enrolled in the two units and complete requirements for both degrees simultaneously or finish their CLAS major first. Students who drop their CLAS major must take the minor option plus a three-course concentration or three-by-threes. A student also may earn a CLAS co-major in international studies; European studies; or Russian, East European, and Eurasian studies.

10. The candidate must have met all requirements of the school. Transfer students must have met the equivalent of those requirements, as outlined above.

11. The candidate must apply to graduate early in his or her final semester.

12. The candidate must complete a minimum of 30 hours in residence after being admitted to the school.

The primary responsibility for meeting graduation requirements rests with the student. Some graduation requirements are subject to change.

Consult the Journalism Advising Center/Records Office for current information.

Two Undergraduate Degrees

A student who has earned a B.A. or B.S. degree and wishes to earn a second undergraduate degree in journalism is expected to meet the school's requirements for area distribution, foreign language, and journalism and to complete a minimum of 65 hours in CLAS. A candidate for a second undergraduate degree must have earned a minimum grade-point average of 2.5 in previous college work and meet the English grade-point averages listed under First- and Second-year Requirements to be considered for admission to the school. A student must complete a minimum of 30 credit hours in residence after admission to the school.

Course Requirements for Journalism Majors (Effective for students entering college in fall semester 2002 and after.) To earn the Bachelor of Science in Journalism degree, students must complete a required total of 30 hours in journalism courses. Four journalism courses form the core and are taken by all students. Two of these courses are taken at the foundation level, and two are taken at the upper level.

Foundation Core

JOUR 101 Media and Society (3 credit hours)
 JOUR 301 Research and Writing (3 credit hours). Completion of JOUR 101 with a grade of 2.0 or higher, completion of the English requirement, and admission to the school are prerequisites for JOUR 301.

Upper-level Core

JOUR 608 Ethics and the Media (3 credit hours)
 JOUR 618 First Amendment and Society (3 credit hours)

After completing the foundation level core, the student selects a track, **News and Information** or **Strategic Communications**. Each includes courses to develop critical and creative thinking ability and skills required by specific fields in journalism and mass communications.

Tracks

The **News and Information** track prepares students for careers in reporting, writing, and editing for the media, including newspapers, magazines, radio, television, and the Internet. Students are encouraged to focus on professional areas that interest them. At the upper level, students in News and Information apply their learning by working on campus or professional media.

Required courses are JOUR 101 Media and Society, JOUR 301 Research and Writing, JOUR 415 Multimedia Reporting, JOUR 419 Multimedia Editing, JOUR 608 Ethics and the Media, JOUR 618 First Amendment and Society, and two advanced media courses in newspaper, magazine, or broadcast. At least 6 hours of journalism electives in the student's interest area must be taken.

The **Strategic Communications** track prepares students to work in marketing communications fields including advertising and public relations. Students are encouraged to pursue interests in different organizations and industries, from agencies and companies to media management firms. At the capstone

level, students apply their learning to professional practice in campaign development.

Required courses are JOUR 101 Media and Society, JOUR 301 Research and Writing, JOUR 433 Strategic Communications, JOUR 435 Message Development, JOUR 608 Ethics and the Media, JOUR 618 First Amendment and Society, and the capstone course, JOUR 676 Strategic Campaigns. To enroll in JOUR 676, a student must complete additional prerequisites of JOUR 568 Marketing and Media Research and one principles course, either JOUR 513 Principles of Advertising or JOUR 523 Principles of Public Relations, and be in good academic standing. Electives in the student's interest area must be taken to meet the 30-hour minimum total journalism hours.

Journalism Courses

JOUR 101 Media and Society (3). Introductory course open to all KU students. The course emphasizes the use of critical and creative thinking as tools to better consider the reliability of information received through newspapers, magazines, radio and television, online media, trade publications, advertising, and business communications. The class also surveys media ethics, economics, technology, and the function and impact of media on a free society. The course is designed for pre-journalism students, students considering journalism as a major, and students from other disciplines who take it as an elective. For students who enter college in Fall 2000 and thereafter, this is a prerequisite for all other journalism courses except JOUR 600. Not open to seniors. Must be completed with a grade of 2.0 or better. May be retaken once. LEC

JOUR 231 TV Sports Production (1-2). Students learn and demonstrate the skills necessary to perform television sports reporting, the gathering of sports news, editing of audio and video, writing for television, and presenting the sports program. Students also learn skills for advanced technical surveying, remote setup, play-by-play announcing, program production, and how to obtain proper authorization for the above. The finished products may be used on KUJH-TV or other media. Prerequisite: Instructor permission. LEC

JOUR 251 TV Production (1-2). Students learn and demonstrate the skills necessary to perform studio- and remote-camera operation, automated station programming, audio recording, basic lighting techniques, basic editing, producing, and directing. Students create public service announcements, commercial messages, promotional announcements, remote events, and studio productions. The finished products may be used on KUJH-TV and/or other media. Prerequisite: Instructor permission. LEC

JOUR 288 Laboratory in Media I (1). A laboratory course designed to give the student experience at KUJH-TV and experience in news and sports at KJHK-FM. No student may earn more than four hours total in JOUR 506, JOUR 507, and/or JOUR 508, and no student may earn more than six hours combined for course work in JOUR 288, JOUR 488, JOUR 507, and JOUR 508. Excess hours of practicum will add hours to the total number of hours needed to meet graduation requirements. A limit of one credit for JOUR 288 in a semester and two credits in a student's total program. Prerequisite: Instructor permission. LAB

JOUR 301 Research and Writing (3). Instruction focuses on gathering and presenting news and persuasive information for all media. Students learn to write for a variety of media, purposes, and audiences. The course emphasizes the importance of storytelling for readers, listeners, and viewers. Students gain basic skills ranging from interviewing to video editing as well as concepts needed to write for a variety of media platforms. Prerequisite: JOUR 101 completed with a grade of 2.0 or better and ENGL 101 and ENGL 102 or ENGL 105 and one course numbered ENGL 203 - ENGL 211 or equivalent. A 2.67 English GPA when all are completed at KU; when any English courses are transferred, a 3.0 English GPA or 2.67 plus an English ACT score of 25. Concurrent enrollment in JOUR 101 and JOUR 301 allowed if English requirements are met. Not open to seniors. Must be completed with a grade of 2.0 or above to enroll in courses for which it is a prerequisite and may be retaken once. Students must be admitted to the School of Journalism or in an approved concentration in order to enroll in JOUR 301. LEC

JOUR 310 Visual Communications (2). Instruction in the elements of visual literacy, design, visual concepts, illustration styles, forms and techniques, composition, typography, color theory, graphic, and design techniques. Class presentations focus on the use of visual elements in news and persuasive journalism in all media. Prerequisite: JOUR 101 with a grade of 2.0 or better. LEC

JOUR 321 Sports Play-by-Play (2). Instruction in sportscasting, sports producing, and live sports play-by-play and color. Students gain practical experience broadcasting games and sportscasts on local media

The William Allen White School of Journalism and Mass Communications is named for the famous Emporia editor whose career began at KU in the 1880s.

Some graduation requirements are subject to change. Consult the Journalism Advising Center/Records Office for current information.

outlets including KUJH-TV and KJHK-FM. The course also offers analysis and criticism of the history and current trends in sports broadcasting. Prerequisite: JOUR 301 with a grade of 2.0 or above. LEC

JOUR 409 Special Topics in: _____ (2-4). Prerequisite: Approval of instructor. IND

JOUR 410 Photojournalism I (3). Study of camera, film, printing, composition, light and lighting, flash, the principles of photojournalism, deadline shooting for sports, general news, spot news, and features. Building a portfolio and laboratory work are included. Prerequisite: JOUR 301 with a grade of 2.0 or above. LEC

JOUR 415 Multimedia Reporting (3). Hands-on instruction in the gathering, writing, and presentation of news and information for newspapers, magazines, television, radio, and online media. Student work may appear in campus media. Prerequisite: JOUR 101 and JOUR 301, each with a grade of 2.0 or above. LEC

JOUR 419 Multimedia Editing (3). This course emphasizes principles of editing for written and verbal expression, logic, visual presentation, organization, and news judgment for all forms of media: newspaper, magazine, broadcast, and online. Prerequisite: JOUR 101 and JOUR 301, each with a grade of 2.0 or above. LEC

JOUR 433 Strategic Communications (3). An exploration of the many forms of persuasive communications in corporate and agency settings and the many audiences/publics addressed. The course takes a research-based, strategic, and integrated-communication-system approach to help students understand how communication elements carry out organizational objectives. Course content includes Integrated Marketing Communication elements such as public relations, advertising, sales promotion, personal selling, relationship marketing, direct marketing, database marketing, digital/cyber marketing, and specialty marketing (e.g., sports marketing, broadcast promotions.) It also covers globalization and business ethics. Prerequisite: Junior standing or completion of JOUR 301 with a grade of 2.0 or above. Open to non-majors. LEC

JOUR 435 Message Development (3). Strategic Communications students learn the role of communication in achieving organizational objectives. This course develops the writing skills expected of strategic communicators. It emphasizes writing for media targeting a variety of audiences with strategic messages. Students learn to analyze communication problems and to create messages that provide solutions. Students develop critical-thinking abilities by using research methods such as interviewing and database analysis. The course includes advertising copy writing, business writing, public relations writing, broadcast writing, and writing for online media. Prerequisite: JOUR 101 and JOUR 301, each with a grade of 2.0 or above. LEC

JOUR 445 Multimedia Writing and Production (3). A non-graduate credit course for graduate students who enter the journalism master's program without a journalism degree from an accredited program or without significant professional experience. This hands-on, skills-based course covers both first-level and second-level writing and production techniques. Students produce both news and strategic messages in print, radio, TV and Web formats. LEC

JOUR 488 Laboratory in Media II (1). Principles of operations, programming, production, and management of KUJH-TV or other media. Students must complete a specified number of hours supervising staff. No student may earn more than four hours total in JOUR 506, JOUR 507, and/or JOUR 508, and no student may earn more than six hours combined for course work in JOUR 288, JOUR 488, JOUR 507, and JOUR 508. Excess hours of practicum will add hours to the total number of hours needed to meet graduation requirements. Limit of two hours enrollment in JOUR 488 in a student's total course work. Prerequisite: Completion of JOUR 101 with a grade of 2.0 or above and instructor permission. LAB

JOUR 499 Honors Research Essay (3). Independent study ending in an essay developed from substantial original research and prepared under the direction of a School of Journalism faculty member who is a specialist in the area of the student's interest. Open only to those seniors already in the honors program and in their last semester in residence. Prerequisite: 3.7 minimum GPA in Journalism; 3.5 minimum overall GPA (all courses - in residence and other); and consent from supervising faculty member. RSH

JOUR 500 Topics in Journalism: _____ (2-3). Prerequisite: Eight hours of journalism. If a section is designated Advanced Media, the prerequisite is JOUR 415 and JOUR 419, each with a grade of 2.0 or above. LEC

JOUR 502 International Journalism (3). A survey of how foreign coverage helps U.S. citizens better understand their nation's culture, economy, and role as a world leader. Examines political influences on foreign coverage, media technology, and the emerging influence of the Internet. The focus of the class may vary geographically from one semester to another with the semester timetable listing the part of the world to be covered. Prerequisite: Eight hours of Journalism. LEC

JOUR 503 History of Journalism and Mass Communication (3). A survey of the history of the American media emphasizing appreciation and understanding of the technological, social, and cultural trends affecting newspapers, magazines, radio, and television broadcasters, and

online media. The class may focus on one segment of journalism history, which will be listed in that semester's timetable. The course may be repeated when the focus varies. Prerequisite: Junior standing. LEC

JOUR 505 Professional Development (1). Preparation in skills needed in seeking internships and permanent employment, including resume and application letter writing, interviewing and professional presentations. Prerequisite: JOUR 415 or JOUR 435 with a grade of 2.0 or higher. LEC

JOUR 506 Directed Studies in Journalism (1-2). Undergraduate research project. Students must submit a written proposal to be approved by the instructor before enrollment. Limit of two hours enrollment in a student's total course work. Prerequisite: 2.5 grade point average overall and in Journalism. IND

JOUR 507 Practicum in Journalism (Professional) (1-2). Practical experience in a supervised professional setting for which the student does not receive pay. Students enrolled receive credit for professional experience in advertising, public relations, news-editorial, radio, television, photojournalism, and related fields. Supervision is provided by the employer offering the professional experience. Credit hours will be graded on a satisfactory/unsatisfactory basis. Enrollment requires consent of instructor. Students also must be registered with the Journalism Career Center and pay a one-time fee. Limit of two hours enrollment in JOUR 507 in a student's total course work. No student may have more than four hours total in JOUR 506, JOUR 507, and JOUR 508. A student may not turn a paid internship into a credit internship. Prerequisite: Having completed either JOUR 415 or JOUR 435 with a grade of 2.0 or above, having completed at least eleven hours of journalism, having a grade point average of 2.5 or above, both overall and in journalism, reporting to a journalism or communications professional, working at least forty hours for one credit, at least eighty hours for two hours of credit, receiving no pay for these hours, and completing a 4-5 page report accompanied by work samples. FLD

JOUR 508 Practicum in Journalism (Academic) (1-2). Practical experience in journalism in a supervised academic setting for which the student does not receive pay. Students enrolled in the course receive credit for practical experience in advertising, public relations, magazine, news-editorial, radio, television, and photojournalism. Supervision is provided by the instructor offering the practicum. Letter grades are earned. Enrollment requires consent of instructor. Limit of two hours enrollment in JOUR 508 in a student's total course work. No student may have more than four hours total in JOUR 506, JOUR 507, and JOUR 508. Prerequisite: 2.5 grade point average, both overall and in journalism. FLD

JOUR 512 Principles of Broadcasting, Cable, and New Technologies (3). A survey of the field from traditional, over-the-air-radio, television and telephone, to satellite and land-based emerging new technologies. The course is strongly based on current events but also covers the historical perspective. The course primarily covers the business side of media, the role and responsibility of the government in regulating media, and an examination of the social implications of the changing media environment. Prerequisite: 8 hours of Journalism. LEC

JOUR 513 Principles of Advertising (3). Students apply the concepts and skills learned in previous courses to the practice of Advertising. By studying past and present campaigns in traditional and new media, students explore how advertising works within the social, economic, and cultural environment. From research and planning, through creative development and media execution, and to final evaluation, students learn what makes campaigns succeed and prepare to produce an effective campaign in the capstone course. Prerequisite: JOUR 415 or JOUR 433 or JOUR 435. LEC

JOUR 523 Principles of Public Relations (3). Students apply concepts and skills learned in previous courses to the practice of public relations. This course surveys the public relations process and the managerial and social responsibilities of the public relations practitioner. Historical and ethical perspectives of the profession are presented, with emphasis on research and planning methods. Prerequisite: JOUR 415 or JOUR 433 or JOUR 435. LEC

JOUR 527 Online Journalism (3). This course is an introduction to online storytelling and production of Web sites. The focus is not on technology, but on the elements of good journalism and the channel of the World Wide Web. The course explores both the editorial and commercial aspects of the Web. The course also covers aspects of the Web that have an impact on media applications—the evolving laws, management, economic implications and the blurring lines between editorial and advertising content. Prerequisite: Completion of or concurrent enrollment in JOUR 415 or JOUR 419 or JOUR 435. LEC

JOUR 533 Case Studies in Strategic Communications (3). Students analyze and evaluate specific examples of success and failure in strategic communications. Prerequisite: JOUR 433 and JOUR 435 and either JOUR 513 or JOUR 523. LEC

JOUR 534 Diversity in Media (3). A study of mass media images and portrayals of race, class, and gender in society. The course examines media representations of African-Americans, Latinos, Native Americans, and Asian Americans, as well as media images of masculinity and femininity. The course also explores media images of groups traditionally under-represented in the media, including gays

and lesbians, the elderly, the poor, and the disabled. Students study media portrayals in journalism, entertainment, public relations and advertising. The course encourages students to think critically about media images and analyze the role mass media play in reinforcing cultural stereotypes. Prerequisite: 8 hours of Journalism. LEC

JOUR 536 Documentary and Corporate Video (3). The study of the field and functions of non-broadcast television: the use of video by business, educational, medical, governmental, and non-profit organizations. Students plan and produce typical video materials, such as training tapes, employee orientations, community relations, new product demonstrations and self-paced instructional programs, designed for both internal and external audiences. Prerequisite: JOUR 415 or JOUR 435 with a grade of 2.0 or above. LEC

JOUR 537 Case Studies in Editing (3). An advanced course in editing print and new media. Working with actual manuscripts as case studies, students practice "micro" editing skills of grammar, punctuation, and refined word usage while addressing issues at the "macro" editorial level, including crafting content according to specific audiences, angles, and messages. Students study tools with which they can turn raw copy into publishable content that works within the larger context of editorial philosophies and communication needs. Students compare editorial decisions with published versions to enhance the learning process. Editorial duties such as direction of writers and management of copy processes in the non-news environment also are practiced. Prerequisite: JOUR 419 with a grade of 2.0 or above. LEC

JOUR 538 International Marketing Communications (3). A survey of the theory and professional practice of global marketing communications. It covers all major forms of integrated marketing communications on an international scale: mass media advertising, including the Internet; public relations; sales promotion, including point-of-purchase; direct and database marketing; partnership marketing; personal selling and the sales force; and event marketing. Intra-country and global marketing communications by multinational organizations will be examined. LEC

JOUR 540 Sports, Media, and Society (3). The role of mass media in shaping and influencing sports and popular culture. Students will think critically about currently accepted media and sports practices, particularly at the Division I college level. Guest speakers represent media and athletics. Discussion, presentation, paper and essay exam. Prerequisite: Junior standing. LEC

JOUR 542 Magazine Publishing (3). An orientation to the magazine industry, both print and new media. Special emphasis is given to understanding the interrelationships of circulation, advertising, promotion, administration, production, and editorial. Students gain knowledge and experience by solving problems faced in conceptualizing and writing a business plan. They research the market and competition, build editorial, production, advertising, and circulation strategies, and they project income and expenses for the first years of the enterprise. Prerequisite: Completion of JOUR 101 with a grade of 2.0 or above and completion of JOUR 301 with a grade of 2.0 or above. LEC

JOUR 552 Print and Online Design (3). An introduction to design concepts and skills as well as computer technologies for newspapers, Web sites, and other print and online publications. Prerequisite: JOUR 301 with a grade of 2.0 or above. LEC

JOUR 553 Marketing Communication Production and Design (3). An introduction to basic production and design skills for marketing and communication materials, such as newsletters, brochures, and other promotions. Students also learn production and design basics for the Internet. Lectures and projects challenge students to demonstrate increased technical knowledge and skills and to make critical decisions about content presentation and production resource efficiencies. Prerequisite: Jour 415 or JOUR 435 with a grade of 2.0 or above. LEC

JOUR 558 E-commerce and the Media (3). A study of the relationships between electronic commerce and media organizations. It includes a robust exploration of online media. The course is designed to address the needs of news reporters, producers, and editors as well as those specializing in strategic or persuasive communications. It also explores how media organizations employ web technology and examines the business models and strategies employed by E-tailers and other dot-com organizations. Prerequisite: Eight hours of Journalism. LEC

JOUR 562 Publication Design and Production (3). This course builds on the principles of graphic and communication design for print and new media. Students gain knowledge and skills through a series of lectures, exercises, and critiques. They create print and online projects for consumer and specialized business magazines, non-profit publications, and for online media. Projects require conceptual visual thinking, audience understanding, and efficient use of production resources. Prerequisite: JOUR 542 with a grade of 2.0 or above. LEC

JOUR 568 Marketing and Media Research (3). Students conduct, analyze, and apply research to develop strategy and guide decisions. In addition to studying research methods, students develop critical-thinking skills by defining research problems and producing insightful solutions. Prerequisite: Completion of or concurrent enrollment in JOUR 433. LEC

JOUR 572 Sales Strategy (3). The application of creative problem solving in addressing the needs of various media constituencies. Rooted in persuasion and motivation theory, the course includes an examination of non-manipulative sales tactics and personal presentation skills. Students develop an understanding of how media organizations integrate advertising, marketing, and sales intelligence in solving client problems. Prerequisite: Eight hours of Journalism. LEC

JOUR 600 School Journalism and Publications (3). (Open only to education majors and journalism teachers in elementary and secondary schools.) A study of the use of publications in the teaching of secondary school journalism, and an analysis of problems in supervising school newspapers, magazines, and yearbooks. The course covers staff organization, writing and editing, make-up, typography, advertising, and illustration. Students learn through lectures, projects, practice assignments, and directed study of newspapers, yearbooks, and current teaching materials. LEC

JOUR 608 Ethics and the Media (3). This course surveys techniques of moral analysis, argument, and decision-making for use by practitioners in both news and persuasive journalism. It employs classical ethical theory, moral reasoning models, and critical-thinking skills to resolve ethical choices through case studies involving reporters, editors, broadcasters, and practitioners in advertising, marketing, and public relations. Prerequisite: Eight hours of Journalism. LEC

JOUR 610 Advanced Photojournalism (3). Advanced study of camera, film, printing, composition, light and lighting, flash, principles of photojournalism, headline shooting for sports, general news, spot news, and features. Building a portfolio and laboratory work in both traditional and digital photography are included. Supervised work may appear in various media outlets. Prerequisite: JOUR 410 with a grade of 2.0 or above. LEC

JOUR 618 First Amendment and Society (3). An examination of the history and philosophy of freedom of speech and press and the limitations imposed upon those rights by statute, common law, and court decisions resolving conflicts with other constitutional rights. Critical-thinking skills and case analysis focus on the roles, rights, and responsibilities of the news and persuasive media in a free society. This course is open to all students at the University of Kansas. It emphasizes the importance of freedom of expression in a free society. Students study key media law court decisions and explore free speech issues more broadly to embrace the philosophical thinking that led to the development of the First Amendment. Prerequisite: Junior standing. LEC

JOUR 626 Long-form Writing (3). Students in this advanced writing course produce information articles and features. These works include profiles, how-to pieces, travel features, analytical works, and narrative essays for submission to magazines, corporate publications, online venues, and cable channels. Prerequisite: One Advanced Media course with a grade of 2.0 or above, and JOUR 415 and JOUR 419, each with a grade of 2.0 or above. LEC

JOUR 636 Opinion and Commentary—Advanced Media (3). Research, writing, and presentation of opinion and critical writing in multimedia formats including newspaper editorials, columns and letters, broadcast and online editorials and commentary, and critical reviews of films, plays, and books in all media. Prerequisite: Completion of one Advanced Media course and JOUR 415 and JOUR 419, each with a grade of 2.0 or above. LEC

JOUR 646 Depth Reporting—Advanced Media (3). Classroom instruction and individual coaching on techniques of investigative and depth reporting, including computer-assisted reporting, database reporting, and finding and using governmental or corporate records. The course offers individual coaching on how to plan, research, organize, write, and present depth reporting projects for print, online or broadcast media. Prerequisite: One Advanced Media course with a grade of 2.0 or above; or completion of JOUR 415 and JOUR 419, each with a grade of 3.0 or above. LEC

JOUR 667 Fieldwork in Magazines—Advanced Media (3). Students receive classroom instruction during the semester and then complete 64 to 80 hours of professional on-site experience in editorial, production, promotion, advertising or circulation departments for local and national organizations. In class, students research, write and present papers, and complete a portfolio review before a panel of external reviewers. Students who complete this class may not enroll in JOUR 507, the professional practicum in journalism. Prerequisite: JOUR 542 or concurrent enrollment in JOUR 542, and a 2.5 grade point average in journalism and overall. Also JOUR 415 and JOUR 419 must be completed, each with a grade of 2.0 or above, before the on-site fieldwork begins. Not open to seniors graduating in December. Students must be returning to KU for a minimum of one semester. LEC

JOUR 676 Strategic Campaigns (4). Students produce a campaign to solve a marketing communication problem for an established organization. Students work with an actual client to develop a campaign from the initial research to the final recommendations. By applying the knowledge, experience, and skills gained in previous courses, students confirm their readiness to enter the profession. Prerequisite: JOUR 435 and JOUR 568 and either JOUR 513 or JOUR

Some departments do not offer all courses in any one semester. Consult the Timetable of Classes for current course offerings, www.timetable.ku.edu.

KU's 2006-2008 academic calendar appears on page 10.

KU students can access course information through Enroll & Pay, <https://sa.ku.edu>.

523. Students admitted to the School for fall 2004 and thereafter must be in good academic standing to enroll in JOUR 676. LEC

JOUR 677 Media Management (3). This course challenges students to strategically address organizational problems and opportunities. It includes the study of management theory as it relates to media structure and function. It seeks to foster an appreciation for the roles and responsibilities of media organizations, and encourages ethical decision-making from a managerial perspective. Prerequisite: JOUR 572 Sales Strategy and one of the following: JOUR 512 Principles of Broadcasting or JOUR 513 Principles of Advertising or JOUR 523 Principles of Public Relations or JOUR 568 Marketing and Media Research. Students admitted to the School for fall 2004 and thereafter must be in good academic standing to enroll in JOUR 677. LEC

JOUR 691 Community Journalism—Advanced Media (3). Students work at a community newspaper, television station or online operation; and either cover the news, produce or edit the news. Instruction includes newsroom coaching and evaluation by professional journalists. Classroom instruction covers such issues as analyzing media content, diversifying story sources, and practical ethical decisions faced by the students. Instructors also meet with students for individual conferences. Students must complete a written project and present it to the class and to the news professionals. Prerequisite: JOUR 415 and 419, each with a grade of 2.0 or above. FLD

JOUR 692 TV News I—Advanced Media (3). Students work for KUJH-TV news as reporters/photographers for daily newscasts. Students are responsible for generating story ideas, conducting interviews, shooting video, and writing and editing stories. Classroom instruction and discussion covers techniques and critical issues in broadcast news. Students receive individual coaching in newsgathering and storytelling techniques for television news. Prerequisite: JOUR 415 and JOUR 419, each with a grade of 2.0 or above. LEC

JOUR 693 TV News II—Advanced Media (3). Students work for KUJH-TV news as producers, assignment editors, photographers, advanced reporters, or in other positions, building on experience and polishing skills developed in TV News I. Students receive classroom instruction and critiques of newsroom work in addition to discussing critical issues in broadcast news. Prerequisite: JOUR 692 with a grade of 2.0 or above, and completion of JOUR 415 and JOUR 419, each with a grade of 2.0 or above. LEC

JOUR 694 Online Writing, Design, and Production—Advanced Media (3). Classroom instruction and supervised individual coaching in the gathering, writing, design, and multimedia presentation of news and information. Students synthesize material as well as generate original material. Prerequisite: JOUR 415 and JOUR 419, each with a grade of 2.0 or above. LEC

JOUR 695 Newspaper Reporting—Advanced Media (3). Classroom instruction and individual coaching in the gathering, writing, and presentation of news in the print and online editions of *The University Daily Kansan*. Students receive individual critiques of reporting and writing in regular conferences with the instructor and in written feedback. Students also gain experience converting stories to broadcast and online format. Prerequisite: JOUR 415 and JOUR 419, each with a grade of 2.0 or above. LEC

JOUR 696 Newspaper and Online Editing—Advanced Media (3). Classroom instruction and individual coaching in editing, news judgment, headlines, makeup and design in the presentation of news in the print and online editions of *The University Daily Kansan* or *kansan.com*. Students receive individualized coaching and feedback in conferences with the instructor. Prerequisite: JOUR 415 and JOUR 419, each with a grade of 2.0 or above. LEC

JOUR 697 Magazine Writing—Advanced Media (3). Classroom instruction and individual coaching in the reporting and editing of articles for *Jayplay*, *The University Daily Kansan's* student-produced weekly campus magazine. Students in the course develop the magazine's content, write departments and articles for the magazine, and work with artists, photographers and the magazine's student editor. Students receive individual coaching and written feedback on their work from the course instructor. Prerequisite: JOUR 415 and JOUR 419, each with a grade of 2.0 or above. LEC

JOUR 698 Media Sales (3). Provides opportunities for students to test and explore communications and persuasion theory in development of campus media. Under faculty supervision, students serve as marketing representatives of KUJH-TV to area advertisers/donors. Prerequisite: JOUR 572 with a grade of 2.0 or above. LEC

JOUR 699 Reporting and Editing for Print and Online—Advanced Media (3). An intense eight-week reporting and editing experience on the *University Daily Kansan* and its web site *kansan.com*. A three-hour class session each week will focus on the proper concepts and techniques of reporting and editing. Students will be required to research and make presentations on various aspects of reporting and editing. Students also will meet one-on-one on an ongoing basis with the instructor to review work. The class may serve as preparation for or a supplement to JOUR 695 Newspaper Reporting or JOUR 696 Newspaper and Online Editing. Prerequisite: JOUR 415 and JOUR 419, each with a grade of 2.0 or above. LEC

JOUR 750 Multimedia Management (3).

JOUR 795 Current Issues in Marketing Communications (3).

JOUR 796 Skill Development in Marketing Communications (3).

JOUR 797 Special Projects in Marketing Communications (1-3).

School of Nursing

Karen L. Miller, Dean
KU Medical Center, Mail Stop 2006
3901 Rainbow Blvd., Kansas City, KS 66160
www2.kumc.edu/son

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Photo, page 368:
Clinical Assistant
Professor Karen
Tarnow (center)
supervises two
nursing students
as they practice
drawing blood in
the Nursing Skills
laboratory.

School of Nursing

Karen L. Miller, Dean

G040 School of Nursing Building

Rita Clifford, Associate Dean, Student Affairs

KU Medical Center, G020 School of Nursing Bldg.

Mail Stop 2029, 3901 Rainbow Blvd.

Kansas City, KS 66160

soninfo@kumc.edu or www2.kumc.edu/son

Phone: (913) 588-1619, Fax: (913) 588-1615

Degrees offered: B.S.N., M.S., Ph.D.

The educational components of the School of Nursing undergraduate program are a broad foundation in the liberal arts and sciences and a concentration in the nursing major. The B.S.N. degree prepares graduates for professional nursing practice in hospitals and other health care agencies. The KU School of Nursing's baccalaureate and master's programs are accredited by the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, D.C. 20036, (202) 887-6791. This organization is a nationally recognized professional accrediting body for collegiate nursing programs. The baccalaureate and master's programs also are approved by the Kansas State Board of Nursing. The Nurse-Midwifery Program is accredited by the Accreditation Division of the American College of Nurse-Midwives, 818 Connecticut Ave., NW, Suite 900, Washington, D.C. 20006, (202) 728-9860.

High School Preparation

High school students planning to enter the baccalaureate program in nursing are encouraged to follow a general college preparatory course of study. Such a course usually emphasizes basic preparation in English, a foreign language, mathematics, natural science, and social sciences.

Admission

Students enter the nursing program after two years (62 semester credit hours) of preparatory work in an accredited liberal arts college. Students must meet the first- and second-year requirements of the colleges they attend to ensure that they attain general educational objectives. Admission to the school is competitive. A minimum grade-point average of 2.5 is required to apply.

Students who are already licensed as registered nurses may apply for admission to the RN-B.S.N. program. Applicants must have earned an associate's degree in nursing and have completed the 62 credit hours of preparatory work in the liberal arts and sci-

ences. A minimum grade-point average of 2.5 is required to apply.

Prenursing Advising

A prenursing adviser is available by appointment one day each week during the fall and spring semesters in the Freshman-Sophomore Advising Center, 126 Strong Hall, on the Lawrence campus. This adviser can help the student select courses, can assist in the admission process, and can give information about the nursing profession. Please call (785) 864-2834 for an appointment in Lawrence. Call (913) 588-1619 for an appointment in Kansas City. Students interested in the RN-B.S.N. program may call (913) 588-1619 for an appointment with an adviser.

Procedure

All basic B.S.N. application materials must be received by October 15 of the year before beginning work in the School of Nursing. Under certain circumstances, late applications may be accepted. Please see the prenursing adviser for details.

RN-B.S.N. students must submit applications by June 1 for fall semester, October 1 for spring semester, and March 1 for summer session.

Applications should be addressed to Rita Clifford, Associate Dean, School of Nursing, KU Medical Center, Mail Stop 2029, 3901 Rainbow Blvd., Kansas City, KS 66160.

Criteria for Admission

The University of Kansas School of Nursing offers an educational program of study leading to the Bachelor of Science in Nursing. The school endeavors to meet the changing needs of society by selecting applicants who, in the judgment of the student admission and progression committee, demonstrate the academic achievement, maturity, integrity, and motivation necessary for the successful study and practice of nursing, and who will best meet the needs of the citizenry. In addition, the committee looks for applicants who will contribute academic, nonacademic, and socioeconomic diversity to the class. The student admission and progression committee is interested in evidence of capacity for mature and independent scholarship. Regardless of the applicant's race, creed, color, age, disability, sex, or national origin, the committee considers the quality of work in all areas, the breadth of education, achievement on advanced projects, or work experience that demonstrates the applicant's responsibility, initiative, and ability to complete the curriculum successfully.

In making the decision, the committee examines the following areas:

Photo, page 370:

A nursing student works with a young patient. Nursing courses cover all the major nursing areas: the care of children and adults, maternal health, mental health, care of the critically ill, community health, and nursing management.

- College scholastic achievement.
- Interest in and commitment to nursing.
- References.
- Extracurricular activities.
- Personal characteristics.
- Health-related work/volunteer experience.

Visit Our Web Site

The School of Nursing Web site, www2.kumc.edu/son, has current information about the school. Visit the Web site for information about School of Nursing programs, resources, policies, and procedures.

University Honors Program

The School of Nursing encourages all qualified students to participate in the University Honors Program. For further information, see University Honors Program in the College of Liberal Arts and Sciences: General Requirements chapter of this catalog.

Departmental Honors Program

Students in the School of Nursing Honors Program develop and complete a research project under the guidance of a faculty research mentor. To complete the honors program, a nursing student must

- Maintain an overall grade-point average of 3.25 and a nursing grade-point average of 3.5.
- Complete all four required Nursing Honors Program courses (7 credit hours). These are NURS 382 Honors Seminar (1 credit hour) spring of junior year NURS 460 Nursing Research, honors section (2 credit hours) summer of senior year NURS 461 Honors Practicum (2 credit hours per semester, taken twice) both fall and spring of senior year

- Prepare a research paper and give an oral presentation of research findings.

Once admitted to the honors program, students may use departmental honors courses to help meet the requirements of the University Honors Program. Students must make formal application and be admitted to the honors program to take honors courses. For more information, contact the undergraduate recruiter.

Regulations

For information about University of Kansas regulations, see the General Regulations chapter of this catalog.

Prenursing Preparation

General Prenursing Requirements

Within the 62 hours required for admission to the school, the following must be included:

Humanities. Courses in English composition and literature, oral communication, and humanities are required.

Social Sciences. Courses in general sociology or anthropology, general psychology, and theories of child development are required.

Natural Sciences and Mathematics. Courses in general chemistry, microbiology, biology or zoology, and human anatomy are required. These courses must include laboratory experience. Courses in college algebra,

statistics, physiology, and nutrition also are required but do not require a laboratory.

Electives. Electives can be chosen according to the student's particular interests or needs. Examples of such elective areas of study are foreign language, philosophy, literature, creative writing, history, oral communication, physics, mathematics, political science, biological sciences, and economics.

A maximum of 8 non-liberal-arts credit hours can be accepted in the 62 credit hours required for admission. These 8 credit hours may be in physical education courses, activity courses, first-aid courses, health education courses, applied courses, and technique courses in art, music, and professional fields other than nursing.

KU Prenursing Requirements

Students who enroll for their first two years of preparatory study in the College of Liberal Arts and Sciences at KU should fulfill the following general preparatory requirements:

English (6 hours). ENGL 101 or exemption, and ENGL 102 or ENGL 105 are required. Other English courses are encouraged as electives.

Oral Communication (3 hours). One of the following courses is required: COMS 130, COMS 150, COMS 230, or exemption.

Foreign Language. Foreign language is not required but may be taken as an elective.

Mathematics (3 hours). MATH 101, college algebra, or higher or exemption from MATH 101 is required. MATH 365 Elementary Statistics or PSYC 300 Statistics in Psychological Research is also required.

Western Civilization. Western civilization is not required but may be taken as an elective.

Natural Sciences (25-27 hours)

BIOL 100 Principles of Biology (3) and	
BIOL 102 Principles of Biology Laboratory (1) or	
BIOL 150 Principles of Molecular and Cellular Biology (4)	4
BIOL 246 Principles of Human Physiology	3
BIOL 240 Fundamentals of Human Anatomy	3
BIOL 241 Human Anatomy Observation Laboratory (2) or	
BIOL 242 Human Anatomy Dissection Laboratory (3)	2-3
CHEM 125 College Chemistry (5) or	
CHEM 184 Foundations of Chemistry I (5) (for students with	
strong high school science and mathematics backgrounds)	5
BIOL 200 Basic Microbiology	3
BIOL 203 Introductory Microbiology Laboratory	2
HSES 330 Principles of Nutrition and Health (3) or	
ANTH 542 Biology of Human Nutrition (4)	3-4

Social Sciences (9-10 hours)

PSYC 104 General Psychology	3
SOC 104 Elements of Sociology (3) or	
SOC 160 Social Problems and American Values (3) or	
ANTH 100 General Anthropology (3-4) or	
ANTH 104 Fundamentals of Physical Anthropology (3-4) or	
ANTH 108 Introduction to Cultural Anthropology (3-4) or	
ANTH 160 The Varieties of Human Experience (3)	3-4
ABSC 160 Introduction to Child Behavior and Development (3) or	
PSYC 333 Child Psychology (3)	3

Humanities (3 hours)

One course designated H in this catalog 3

Statistics (3 hours)

PSYC 300 Statistics in Psychological Research (3) or	
MATH 365 Elementary Statistics (3)	3

Prenursing students on the Lawrence campus should contact the pre-nursing adviser in the Freshman-Sophomore Advising Center, 126 Strong Hall, (785) 864-2834, www.advising.ku.edu.

Current lists of courses required for the major are available from the School of Nursing at KU Medical Center.

The 2006 Fiske Guide to Colleges calls KU's School of Nursing a standout.

Bachelor of Science in Nursing Degree

General Requirements

The B.S.N. degree is granted to candidates recommended by the School of Nursing as having successfully fulfilled all prescribed requirements, including the following: A total of 124 credit hours is required for the degree with a cumulative grade-point average of at least 2.0. Only courses in which a grade of C or higher is earned count toward graduation. The last 30 hours completed for the degree must have been taken in residence at KU. No more than one quarter of the total hours applied toward graduation may be earned through credit by examination.

Nursing Major

B.S.N. Option. The professional portion of the B.S.N. program can be completed in two academic years and one summer session of full-time study.

Nursing (62 credit hours)

NURS 301 Techniques for Therapeutic Interventions I	1.0
NURS 302 Techniques for Therapeutic Interventions II	1.0
NURS 310 Information Technology for Health Care Professionals ..	1.0
NURS 321 Alterations in Physiological Functioning I	3.0
NURS 322 Alterations in Physiological Functioning II	2.0
NURS 325 Pharmacology	3.0
NURS 340 Foundations of Nursing and Health Promotion	5.0
NURS 341 Foundations of Nursing and Health Promotion:	
Clinical Laboratory	3.0
NURS 350 Client Assessment	3.0
NURS 360 Mental Health Nursing	3.0
NURS 361 Mental Health Nursing: Clinical Laboratory	2.0
NURS 365 Nursing of Adults	3.0
NURS 366 Nursing of Adults: Clinical Laboratory	2.0
NURS 375 Nursing of Children	3.0
NURS 376 Nursing of Children: Clinical Laboratory	2.0
NURS 420 Nursing of the Client with Complex Acute Needs	
(half semester)	3.0
NURS 421 Nursing of the Client with Complex Acute Needs:	
Clinical Laboratory (half semester)	1.5
NURS 430 Population-based Health Care (half semester)	2.0
NURS 431 Population-based Health Care: Clinical Laboratory	
(half semester)	1.5
NURS 440 Leadership and Management in Nursing	3.0
NURS 450 Health Care Issues and Professional Nursing Practice ...	2.0
NURS 455 Legal/Ethical Foundation for Professional Nursing	
Practice	3.0
NURS 460 Nursing Research	2.0
NURS 490 Professional Practicum	5.0
Electives in nursing	2.0

RN-B.S.N. Option. Registered nurses may earn credit by examination for up to 25 credit hours in the nursing major. This credit is based on previous nursing education, work experience, and professional licensure. The remaining nursing courses are Web-based courses offered through the School of Nursing Virtual Classroom.

Nursing Course Credit by Examination (25 credit hours)

NURS 301 Techniques for Therapeutic Interventions I	1.0
NURS 302 Techniques for Therapeutic Interventions II	1.0
NURS 340 Foundations of Nursing and Health Promotion	5.0
NURS 341 Foundations of Nursing and Health Promotion:	
Clinical Laboratory	3.0
NURS 360 Mental Health Nursing	3.0
NURS 361 Mental Health Nursing: Clinical Laboratory	2.0
NURS 365 Nursing of Adults	3.0
NURS 366 Nursing of Adults: Clinical Laboratory	2.0
NURS 375 Nursing of Children	3.0
NURS 376 Nursing of Children: Clinical Laboratory	2.0

Nursing Courses for RN-B.S.N. Students (37 credit hours)

NURS 310 Information Technology for Health Care Professionals ..	1.0
NURS 320 Alterations in Physiological Functioning	3.0
NURS 325 Pharmacology	3.0
NURS 352 Client Assessment for the Practicing Nurse	2.0
NURS 404 Concepts of Professional Nursing and Health	
Promotion	3.0

NURS 420 Nursing of the Client with Complex Acute Needs ..	3.0
NURS 421 Nursing of the Client with Complex Acute Needs:	
Clinical Laboratory	1.5
NURS 430 Population-based Health Care	2.0
NURS 431 Population-based Health Care: Clinical Laboratory ...	1.5
NURS 440 Leadership and Management in Nursing	3.0
NURS 450 Health Care Issues and Professional Nursing Practice ...	2.0
NURS 455 Legal/Ethical Foundation for Professional Nursing	
Practice	3.0
NURS 460 Nursing Research	2.0
NURS 490 Professional Practicum	2.0
Electives	5.0

All nursing courses must be completed with a grade of C or higher to meet requirements for graduation.

● Nursing Courses

NURS 301 Techniques for Therapeutic Interventions I (1). Skills necessary to perform fundamental techniques relating to therapeutic interventions are discussed and demonstrated. The emphasis is on drug calculation and psychomotor skills. Concepts of time management, prioritization of nursing care, team building, cost effectiveness and resource utilization are introduced through scenarios and demonstrations in a laboratory setting. Prerequisite: Admission to the School of Nursing. LEC

NURS 302 Techniques for Therapeutic Interventions II (1). Therapeutic interventions pertaining to care of the client experiencing acute, chronic, and complex health deficiencies are discussed and demonstrated. Case scenarios and demonstrations are used to apply the concepts of time management, prioritization of nursing care, delegation, team building, cost effectiveness, and resource utilization in a laboratory setting. Prerequisite: NURS 301. Prerequisite or corequisite: NURS 322, NURS 325, or consent of instructor. Corequisite: NURS 366 and NURS 376. LEC

NURS 306 Nursing Care of the Adult Experiencing Surgery (2). This course is designed to assist undergraduate students to acquire a scientific knowledge base necessary for delivering quality nursing care to adult surgical patients. The course will include an in-depth study of content relevant to the pre-operative, intra-operative, and post-operative phases, using Maslow's hierarchy of needs as a basis for the content. Opportunities will be provided for students to increase their skills in the use of the nursing process. Prerequisite: NURS 340 and NURS 341. LEC

NURS 310 Information Technology For Health Care Professionals (1). Beginning theory and practical applications of various uses and results of computer technologies are explored in order to provide the basic skills and current infrastructure for information management in health care delivery. These concepts and skills are essential for curriculum related activities, as well as for providing therapeutic nursing interventions and communications with faculty, client systems, and other health care participants. Learners are encouraged to be cognizant of emerging legal and ethical issues related to electronic communications. Knowledge and skills presented in this course will be developed and expanded in future nursing courses. Prerequisite: Admission to the School of Nursing or consent of instructor. LEC

NURS 312 Adult Trauma Management (2). Basic concepts related to the care of the traumatically injured adult are discussed. Emphasis is placed on the initial management and stabilization of the adult trauma client. The nursing process is utilized to assist the individual client to restore system balance and prevent further system imbalance. Basic trauma stabilization skills are demonstrated. Ethical, legal, and societal issues, as well as current research on trauma management will be explored. Prerequisite: NURS 340 and NURS 341, NURS 350, or consent of instructor. LEC

NURS 313 Integrating Nutrition in Nursing (2). Knowledge from the basic sciences is applied to explore the relationship between nutrition and body function. Nutrition requirement for the different phases of the life cycle are described. The application of nutritional concepts necessary for the maintenance of health, prevention of illness, and minimization of the complications of acute and chronic illness will be discussed. A framework to counsel clients regarding healthful dietary habits, costs and governmental programs will be explored. Prerequisite: Completion of two Level II courses. LEC

NURS 316 Psychosocial Aspects of Nursing Seminar (2). Psychosocial issues that relate to nursing care across the wellness-illness continuum for client systems across the lifespan will be explored in this course. Relevant topics such as death and dying, disfiguring conditions, infertility, and coping with chronic illnesses will be investigated. Ethical and legal considerations as well as current research will be discussed. Prerequisite: Completion of two Level II courses. LEC

NURS 317 Stress Management for Nurses (2). This course is designed to acquaint students with the concept of stress as it occurs in our society and to introduce them to effective ways of dealing with stress in themselves and in their clients. The course will examine socio-cultural, physiological, and psychological components of stress. Students will be exposed to effective stress management techniques through the utilization of small group experiential exercises as a teaching methodology. LEC

See Financial Aid in the General Information chapter for scholarship and loan programs for Kansas City campus students.

The KU School of Nursing's baccalaureate and master's programs are accredited by the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, D.C. 20036, (202) 887-6791. They are also approved by the Kansas State Board of Nursing.

NURS 318 Advanced Concepts in Intravenous Therapy (2). Advanced concepts in intravenous therapy that are relevant to practice in acute, ambulatory, long term and home settings will be presented. All venous access devices and types of intravenous therapies will be studied. Emphasis will be placed on client assessment, client teaching, early recognition of complications and research-based implications as they relate to intravenous therapy and care of clients across the life span. Hands-on opportunities to work with the various intravenous access devices and therapies will be provided in non-clinical and clinical laboratory settings. Prerequisite: Completion of two Level II courses. LEC

NURS 320 Alterations in Physiological Functioning (3). This course is designed to provide students with a basic understanding of pathophysiological changes that occur within the internal environment of the individual. Understanding these alterations is basic to providing quality nursing care. System variations across the lifespan are addressed. Prerequisite: Admission to the School of Nursing and RN to BSN program or consent of instructor. Exams will be scheduled as in class proctored experiences. LEC

NURS 321 Alterations in Physiological Functioning I (3). Basic mechanisms underlying illness and disease are stressed as a basis for the understanding of health promotion and disease prevention in this first of two sequential courses. Pathophysiological changes that occur within the internal environment of individuals in the presence of dysfunction of disease of selected systems are presented as a rationale for nursing diagnoses and therapeutic interventions. System variations across the life span are addressed. Prerequisite: Admission to the School of Nursing. LEC

NURS 322 Alterations in Physiological Functioning II (2). In this second sequential course, an understanding of pathophysiological changes that occur within the internal environment of the individual in the presence of dysfunction or disease of selected systems are provided as a rationale for nursing diagnoses and therapeutic interventions. The most common alterations in selected body systems are presented, with relevant risk factors and epidemiology, pathophysiological mechanisms, and clinical manifestations. System variations across the life span are discussed. Prerequisite: NURS 321. Prerequisite or corequisite: NURS 325 or consent of instructor. LEC

NURS 325 Pharmacology (3). Pharmacodynamics and pharmacokinetics of drug therapy are discussed in order to provide a basic understanding of the client's reaction to a drug both therapeutically and adversely, and to predict potential drug interactions. Internal and external environmental factors affecting drug therapy are assessed in order to provide a comprehensive data base for therapeutic nursing interventions. Specific prototypes of selected drug classifications provide the framework for understanding the action, use, side effects and nursing implications of drugs. The nurse's role in drug administration, assessment of drug effects, and client system education are emphasized. Legal and ethical responsibilities for administering drugs are considered. Prerequisite: Admission to the School of Nursing or consent of instructor. Prerequisite or Corequisite: NURS 322 or consent of instructor. LEC

NURS 340 Foundations of Nursing and Health Promotion (5). Four concepts basic to the art and science of nursing (client systems, environment, health, and nursing) are introduced as a foundation for professional practice. The influence of nursing values and standards (ANA), client characteristics, and the evolving health care system on nursing practice are explored. Principles of nursing are integrated with concepts of health promotion to prepare the student to meet the fundamental health-related needs of individual and family client systems across the life span. Prerequisite: Admission to the School of Nursing. Corequisite: NURS 301, NURS 341, and NURS 350; or consent of instructor. LEC

NURS 341 Foundations of Nursing and Health Promotion: Clinical Laboratory (3). The four concepts basic to the art and science of nursing (client systems, environment, health and nursing) in providing care to healthy clients across the life span are demonstrated in a clinical laboratory setting. Care of families during the normal child-bearing experience is an integral part of this course. Students develop beginning skill in applying the nursing process and planning care for healthy individuals and families. Prerequisite: Admission to the School of Nursing. Corequisite: NURS 340. LAB

NURS 344 The Pediatric Surgical Client (2). Introduces students to concepts and theories of pediatric operating room nursing. Factors in the client's internal and external environment that contribute to alterations in system balance resulting in the need for surgical intervention are explored. Components of the role of the OR Nurse during preoperative, intraoperative, and postoperative phases are emphasized. Physiological and psychological alterations are identified. Nursing interventions used to maintain or restore system balance and prevent further system imbalance are investigated. Ethical and legal issues, as well as current research involving the practice of pediatric operating room nursing, are discussed. Prerequisite: NURS 375 and NURS 376. LEC

NURS 349 Physical Assessment of the Pediatric Client (2). Opportunities are provided to develop the skills necessary to assess the development and physical parameters of pediatric clients. The emphasis is on physical examination and history taking to include environ-

mental forces which impact on child health. The four basic methods of physical examination (inspection, palpation, percussion, and auscultation) are presented. Opportunities for practice under supervision are provided. While the normal health assessment is stressed, the abnormal is presented for comparison. Prerequisite or Corequisite: NURS 350 or consent of instructor. LEC

NURS 350 Client Assessment (3). Opportunities are provided in a laboratory setting to demonstrate cognitive and psychomotor competencies related to assessment of the individual client system across the life span. The emphasis is on physical examination and historical data collection. Developmental factors and environmental stressors that influence health status are explored. The four basic methods of physical examination (inspection, palpation, percussion and auscultation) are presented. Prerequisite: Admission to the School of Nursing or consent of instructor. LEC

NURS 352 Client Assessment for the Practicing Nurse (2). Opportunities are provided, in a laboratory setting and with simulations, to demonstrate competencies in assessment of the individual client system across the life span. Historical data collection and psychological and physical assessment are reviewed. Interviewing techniques and the four basic methods of physical examination (inspection, percussion, palpation, and auscultation) are presented. Critical thinking is emphasized to cluster data to select and support nursing diagnoses. Prerequisite: Admission to the School of Nursing and RN licensure, or permission of instructor. LEC

NURS 360 Mental Health Nursing (3). Principles of communication as an intervention in developing therapeutic relationships with clients from varying age groups in psychiatric settings are discussed. Mental health concepts and selected theoretical frameworks are used to understand adaptive and maladaptive coping behaviors in response to alterations in psychological functioning. These theoretical frameworks, as well as designated diagnostic classification systems, are discussed in relation to the implementation of the nursing process. Students engage in critical thinking to examine the role of the nurse in psychiatric-mental health nursing, exploring it in relation to health promotion, disease prevention, community resources, historical perspectives, and economic, legal and ethical issues. Prerequisite: Level I courses. Prerequisite or Corequisite: NURS 302, NURS 322 and NURS 325, or consent of instructor. Corequisite: NURS 361. LEC

NURS 361 Mental Health Nursing: Clinical Laboratory (2). Theoretical concepts from NURS 360 and nursing therapeutics are applied in the care of clients who have alterations in psychological functioning. Acute care and community-based clinical experiences provide opportunities for students to participate in interdisciplinary team planning, interventions, and therapeutic group meetings. Corequisite: NURS 360. LAB

NURS 365 Nursing of Adults (3). Use of the nursing process in the care of adult clients in a variety of settings with acute and chronic illness is discussed. The role of the nurse in the use of clinical pathways to guide the interdisciplinary care of the client in the evolving health care environment is explored. Emphasis is placed on therapeutic nursing interventions that will successfully manipulate environmental factors to promote, maintain, and restore system balance and to prevent further system imbalance. Legal, ethical, economic and cultural considerations associated with the management of adults with acute and chronic illness are investigated. Prerequisite: Level I courses. Prerequisite or Corequisite: NURS 302, NURS 322, and NURS 325, or consent of instructor. Corequisite: NURS 366. LEC

NURS 366 Nursing of Adults: Clinical Laboratory (2). Theoretical concepts from NURS 365 and the nursing process are applied in the care of adult clients with acute and chronic illness in a variety of acute care and community settings. The student demonstrates the role of the nurse in interdisciplinary care including clinical pathways. Selected cultural, legal ethical and economic principles pertinent to the clinical practicum are applied. Corequisite: NURS 365. LAB

NURS 375 Nursing of Children (3). Acute and chronic alterations in physiological and psychological functioning of the child and family are introduced. Emphasis is placed on changes within the internal and external environments which relate to the child's acute and chronic illness experience. Therapeutic nursing interventions are explored in the context of research findings, holistic perspectives and outcome measures as related to the dynamics of system balance, growth and development, health promotion and client system values. The role of the nurse in an evolving health care system of managed care is examined. Holistic and caring approaches to human functioning are explored. Legal, ethical, cultural, economic and social principles which affect decision-making, interdisciplinary collaboration and outcomes of care are identified. Prerequisite: Level I courses. Prerequisite or corequisite: NURS 302, NURS 322, NURS 325, or consent of instructor. Corequisite: NURS 376. LEC

NURS 376 Nursing of Children: Clinical Laboratory (2). Theoretical concepts from NURS 375 are applied in the care of children with acute and chronic health problems and their families. Researched-based nursing therapeutics, managed care, interdisciplinary collaboration and outcome measures are emphasized in the care of children

with acute and chronic health problems. Hospital, clinic, community and home based settings provide opportunities for holistic and caring approaches to children and families from culturally and economically diverse backgrounds. Corequisite: NURS 375. LAB

NURS 382 Honors Seminar (1). This seminar provides the Honors nursing student the opportunity to explore topics of interest and begin reviewing the current research literature on a given topic. Emphasis is placed on interaction with active nurse researchers to enable the student to identify available research opportunities in ongoing studies. Students are introduced to the application of various methods used to address nursing questions. Prerequisite: Admission to the Nursing Honors Program. LEC

NURS 383 At-risk Childbearing Family (2). Alterations in physiological and psychological functioning of the client system as it relates to at risk clients during antepartum, intrapartum, and postpartum periods will be explored. Theoretical concepts related to the dynamics of individual and family systems balance and the application of nursing process during pregnancy, birth, and early parenting will be examined. Care of women and childbearing families will include interaction with clients and their families in hospital and community settings. Prerequisite: Completion of two Level II core courses (NURS 360/NURS 361, NURS 365/NURS 366, or NURS 375/NURS 376) or senior status. LEC

NURS 384 Mentor/Doula (2). The mentor/doula role and its benefit to the pregnant/postpartum client will be explored. The learner will enhance positive health behaviors in an assigned pregnant teenage client during the antepartum, intrapartum, postpartum, as well as the early parenting period as the mentor/doula. The student functioning as a mentor/doula will educate and coach the pregnant teenager during the birthing/postpartum process. Prerequisite: Application to the St. Luke's Hospital Mentor/Doula Program. LEC

NURS 404 Concepts of Professional Nursing and Health Promotion (3). Concepts and skills required for the transition to the professional nurse's role and application of the nursing process with client systems through the life span are explored. The four concepts basic to the art and science of nursing (client systems, environment, health, and nursing) are demonstrated. Internal and external environmental factors are examined that promote, maintain, or restore client system balance with emphasis on different ages and developmental stages. The concepts of health promotion and illness prevention are emphasized, including the use of health teaching, screening, and community referrals for culturally diverse clients across the life span. Prerequisite: RN licensure, and admission to the School of Nursing. LEC

NURS 407 The Camper Experience For Healthy and Chronically Ill Youth (2). Nursing concepts and their application in a camp setting that are relevant to the day to day activities of youths in camp is the focus of the course. Emphasis is placed on individual and small group teaching, promotion of self care, and role of the nurse in a camp environment. Nursing care functions will be practiced in a residential, outdoor environment in a relaxed atmosphere. The nursing process is the organizing framework for content to enable the student nurse to assist in orientation to the initial camper experience and to promote self care in the camper, whether for general health or a chronic illness. Overnight experiences may be required. Prerequisite or Corequisite: NURS 375 or consent of instructor. LEC

NURS 410 Primary Women's Health Care Across the Lifespan (3). Psychological, sociological, and physiological issues of health and human functioning of the female client systems across the life span are explored. Theory and research-based therapeutic management of acute, episodic, and chronic conditions that occur in community based women and their families will be planned. Professional values including standards of practice, certification, cultural, legal and ethical issues, and professional roles will be addressed. The health care delivery system will be analyzed for cost effectiveness and sensitivity to women. Corequisite: RN-BSN student or consent of instructor. LEC

NURS 420 Nursing of the Client with Complex Acute Needs (3). The nursing process in the care of clients with complex acute alterations in physiological and psychological functioning is emphasized. Advanced theoretical concepts are applied in the selection of therapeutic nursing interventions that successfully manipulate complex environmental factors to restore system balance and prevent further system imbalance. Collaborative relationships essential to providing holistic quality care for client systems with complex acute needs are discussed. Differences in the use of advanced technological support across the lifespan are presented. Legal, ethical, cultural and economic considerations associated with complex acute health problems are addressed. Prerequisite: Level II courses. Corequisite: NURS 421. LEC

NURS 421 Nursing of the Client with Complex Acute Needs: Clinical Laboratory (1.50). Theoretical concepts from NURS 420 are applied in a clinical laboratory setting. Critical thinking and the nursing process are used to provide therapeutic nursing interventions with client systems experiencing complex acute alterations in physiological and psychological functioning. Emphasis is on mastery of advanced assessment techniques and interdisciplinary communication. Opportunities are provided for application of the concepts for using technically advanced therapeutics which support physiological functioning and

maintain hemodynamic stability. Corequisite: NURS 420. LAB

NURS 430 Population-based Health Care (2). Concepts and theories related to providing health care to complex systems and aggregates in the community, state, nation and world are explored. Emphasis is placed on the promotion, maintenance and restoration of health and wellness and the prevention of disease. Internal and external environmental components which include historical, political, social, cultural and economic factors are presented. The role of the health care provider in identifying, prioritizing and meeting the health needs of aggregates is discussed. Prerequisite: Level II courses. Corequisite: NURS 431. LEC

NURS 431 Population-based Health Care: Clinical Laboratory (1.50). Concepts and theories from NURS 430 are applied to the health care of aggregates in the community. Students are given opportunities for interdisciplinary collaboration in the provision of health care for culturally diverse populations. Prerequisite: Level II courses. Corequisite: NURS 430. LAB

NURS 432 Perioperative Nursing (2). The perioperative nursing course focus is on the role and practice of the professional perioperative nurse and the basic skills and knowledge involved in operating room nursing. A technological orientation will be used to apply the nursing process in assisting the patient in adapting to the surgical experience; to demonstrate skill in applying knowledge in motor and manipulative activities; and to facilitate therapeutic relationships between the nurse and the patient. It is anticipated that upon completion of the course, the registered nurse will be able to assume responsibilities at the beginning staff nurse level in the operating room. Prerequisite: Current RN licensure in Kansas and graduate of an N.L.N. accredited School of Nursing. LEC

NURS 440 Leadership and Management in Nursing (3). Nursing practice in an evolving health care system is addressed as well as the implications of a managed care environment on health care delivery. The role of the nurse as leader and manager of a health care team is examined using concepts and theories of organization, management, leadership, change, decision making, and group process. Findings of current research related to nursing management and leadership are discussed. Historical, political, economic, social, and cultural factors that affect health care delivery within an organization are considered. Prerequisite: Level II courses. LEC

NURS 445 International Health Care: A Clinical Experience (2). Concepts and theories of international nursing and world health are discussed and applied to assessing the clients' internal and external environment that impact health care. Various roles and responsibilities of nurses participating in international health are examined. The ethical and legal issues as well as current research involving the practices of international nursing are explored. A week long immersion experience in less developed country provides an opportunity to incorporate the nursing process in clinic settings and to function as members of a health care team. LEC

NURS 450 Health Care Issues and Professional Nursing Practice (2). Selected theories, nursing history, and current issues and trends that influence professional nursing are critically explored. A professional practice model is used as a framework for analyses and integration of economic, political, social and cultural issues as they relate to interdisciplinary health care. Prerequisite: Level II courses. LEC

NURS 453 Nursing and Children with Developmental Disabilities (2). This course provides the student with an introduction to children with developmental disabilities. The impact of environmental factors on children and their families is examined. The ability of children and their families to maintain a state of well-being and the nurse's role in promoting a maximum state of well-being is explored. Information about children with developmental disabilities and their families is based on understanding of nurse-client interactions that can assist in identifying and meeting the needs of children and their families. Prerequisite: NURS 375 and NURS 376 concurrently; or permission of instructor. FLD

NURS 455 Legal/Ethical Foundation for Professional Nursing Practice (3). Legal and ethical issues related to nursing practice are discussed. Laws and ethical principles that guide professional nursing practice in the current health care delivery system are emphasized. Information on the law, legal system, malpractice, negligence, and standards of care is provided. Distinctions between legal and ethical bases for nursing actions are identified in order to provide guidance in the decision making process. Critical thinking is used to analyze the impact of personal, professional, societal, and client system values on ethical decision making. Prerequisite: NURS 340. LEC

NURS 460 Nursing Research (2). The history of nursing research, terminology, and steps in the research process are explored. Research as a basis for assessment of outcomes of health promotion and health care interventions including therapeutic nursing interventions is emphasized. Research questions relevant to clinical practice are identified. Interpretation of research for use in nursing practice is emphasized. The role of theory and ethical issues involved in the conduct of research is addressed. Prerequisite: Level II courses or consent of instructor. LEC

NURS 461 Honors Practicum (2-4). Under the mentorship of an active nurse researcher the student designs and conducts a research project

and participates as a member of a research project team. Students apply principles of research learned in NURS 460 to design and critique their own research project while providing feedback to peers. Through seminar activities they critically analyze the issues, rewards, and challenges of conducting research. This course requires two semesters of enrollment (2 credit hours each) during the senior year. Prerequisite: Completion of NURS 382, Honors Seminar and NURS 460, Nursing Research. LEC

NURS 466 Serum Laboratory Data: From Theory to Clinical Application (2). The usefulness of common serum laboratory tests in identifying potential or actual needs of individuals is the primary purpose of this course. Alterations in serum laboratory data associated with imbalances in the internal environment due to common pathological states of individuals across the life span will be discussed. The focus will be on utilizing this knowledge in the identification of nursing diagnoses and interventions. Prerequisite: Completion of two of the three Level II courses or permission of instructor. LEC

NURS 469 Independent Study in Nursing (0.5-5). Intensive study in an area of interest with experiences selected according to the student's written purposes, conceptual framework, objectives and evaluation (1-5 credit hours). Appropriate prerequisite courses, as determined by the Independent Study faculty adviser, must be completed. IND

NURS 490 Professional Practicum (2-5). A preceptor model of learning professional nursing practice provides opportunities to synthesize and integrate previous learning experiences. Concepts of leadership and management, change, and therapeutic nursing interventions are integrated into practice. The focus is on individualized transition to the professional nursing role as an employee, recognizing the organizational, social, political, economic, ethical, and legal context in which interdisciplinary health care is delivered in a selected clinical setting. Prerequisite: NURS 420, NURS 421, NURS 430, NURS 431, NURS 455 and NURS 460. Prerequisite or Corequisite: NURS 440 and NURS 450. LEC

● Graduate Nursing Courses

NRSNG 505 Caregiving: Creating Partnerships with Families (2-3). Health theory, research and nursing practice specific to the family as a system of health care delivery are discussed. Issues of patient and family autonomy, advocacy and alliances with health care professionals are explored in relation to professional values. Health and functioning of clients and family caregivers are assessed in their environment considering economic, social, and cultural factors. Students may elect a 1 credit clinical practicum to implement nursing care with caregiving families. LEC

NRSNG 506 Nursing Case Management of the Older Adult (2-3). Develops a systematic approach to the comprehensive functional assessment and care coordination of the frail elderly. A variety of standardized assessment instruments are used to determine clients' ability to function within their environment. These assessment data are then used to formulate and evaluate a service care plan utilizing appropriate intervention strategies. Ethical, legal and political issues are integrated. Knowledge and skills necessary for nursing case management are emphasized. Prerequisite: Senior year, Level II courses or graduate level.

NRSNG 507 Pain Management (2). Nursing process provides the framework to assess the clients system's response to pain and to plan effective pain management strategies. Pain as a subjective experience comprised of physiologic, cognitive, affective, cultural, and behavioral components and the impact of this experience on the clients' family system is discussed. Differences between acute, chronic acute, and chronic non-malignant pain across the health-illness continuum and the range of therapeutic interventions available for effective management are addressed. The importance of evaluating pain control and communicating the selected plan to all members of the collaborative team is stressed. Prerequisite: Senior status or graduate student. LEC

NRSNG 508 Violence: The Forensic Perspective (2). This course is designed as an in-depth exploration of the seriousness and pervasiveness of interpersonal violence (IPV) in our society and the impact violence has on health care. Assessment techniques to identify victims of interpersonal violence and intervention strategies are described. The forensic principles and standards of clinical practice and the role of health care providers in the new field are integrated throughout the course via case studies and lectures. Prerequisite: Senior status, RN licensure, or consent of instructor. LEC

NRSNG 509 Therapeutic Touch: The Krieger-Kunz Method (2). The Krieger-Kunz Therapeutic Touch (TT) method is examined as a consciously directed process of energy exchange during which the practitioner uses the hands as a focus for facilitating healing in the client system. Students are given the opportunity to learn beginning levels of centering, assessment of the human energy field, rebalancing for symmetrical and rhythmical energy flow, and process evaluation. Supervised practice sessions are included to ensure that student performance is within professional practice guidelines established for health professionals. Prerequisite: Senior status, RN licensure. Graduate Level, or consent of instructor. LEC

NRSNG 510 Health Care at the End of Life (2). Complex issues that influence care for clients and their family systems at the time of and surrounding death provide the focus for this course. Contemporary attitudes surrounding death and dying as well as ethical, legal, cul-

tural, social, and financial issues are examined. The needs of individuals and families surrounding death such as pain and symptom management, psycho-spiritual care, and bereavement are discussed in relation to contemporary causes of death. Collaborative role development with other members of the health care team surrounding care of the dying are explored. Prerequisite: Level III courses. Corequisite: NURS 490 Professional Practicum. LEC

NRSNG 514 Nursing, Health Care, and Human Sexuality (2). A systematic approach to the study of sexuality in relation to assessment and nursing care throughout the life span is discussed. Students examine their own values and beliefs regarding varied lifestyles and diversities in sexuality of individuals, families, groups and society. The concept of sexuality as it relates to the wellness-illness continuum will be examined. The effect of current trends in society on professionals and client systems will also be explored. Prerequisite: Senior status, RN licensure, Graduate level, or consent of instructor. LEC

NRSNG 556 Interdisciplinary Wellness Promotion for People with Psychiatric Disabilities (2). The course emphasizes development of wellness programs built on recovery philosophy and health promotion models. Factors relevant to the adoption of healthy behaviors in individuals with psychiatric disabilities are explored. Students have the opportunity to partner with interdisciplinary groups including students with psychiatric disabilities in designing a health promotion session that meet the needs of the population. Course is cross listed with OCHT 756. Prerequisites: Level II, Level III, Graduate Level or consent of instructor. LEC

NRSNG 564 Health Care of Persons with Patterns of Addiction (1-2). Health care implications for client systems with problems related to alcohol and other commonly abused chemicals are examined. Both acute and chronic responses will be presented as effects upon the psychosocial, biological, cognitive/perceptual and spiritual/belief dimensions of the client systems. Ethical and legal considerations will be explored in conjunction with current research findings. Prerequisite: Senior status, RN licensure, Graduate level, or consent of instructor. LEC

NRSNG 565 Nursing Care of Persons with Patterns of Chemical Dependency: Practicum (2). Clinical application of the nursing process for complex client systems with problems related to alcohol and other drug abuse is the primary purpose of the course. Assessing clients and planning interventions to restore system balance will be emphasized. Resources appropriate for these clients within the community will be investigated. This course is designed to complement the didactic course NRSNG 564 Health Care of Persons with Patterns of Addiction by affording students opportunities for building experiential skills. Prerequisite or Corequisite: NRSNG 564, Senior status, RN licensure, Graduate level, or consent of instructor. LEC

NRSNG 572 Topics for Health Professional Educators (2-3). This topics course is designed to develop the health professional's role as educator and to promote a skill set to enhance teaching and learning for diverse populations. Experiences are gained assessing the learning needs of a target population and developing educational topics. Participants apply current learning theories and effective teaching strategies to design, implement and evaluate educational experiences. Technological advances, as well as current and future issues in teaching and learning are considered. Content, specific to the topic, includes role development issues, assessment and planning strategies, teaching/learning concepts, technology implications, and evaluation concepts. Prerequisite/Co-requisite: Senior Level Nursing/Allied Health, admission to graduate program, or consent of instructor. LEC

NRSNG 576 Promoting Wellness: Community Experience with People with Psychiatric Disabilities (1). Course provides the opportunity for students to integrate information from the on-line health promotion course in a practice experience. Students will implement and evaluate an interdisciplinary health promotion module for persons with psychiatric disabilities in a community mental health setting. Course includes training in developing a collaborative approach with consumers and professionals from other disciplines. Prerequisite: NRSNG 556 or consent of Instructor. Course is cross listed with 774 LEC

NRSNG 720 Introduction to Nursing Informatics (2).

NRSNG 721 Understanding and Changing Health Behavior (3).

NRSNG 722 Scholarly Writing for the Health Professional (3).

NRSNG 723 Advanced Practice Geriatric Nursing of the Frail Older Adult (2-3).

NRSNG 748 Theories: Bridge to Practice and Research (2).

NRSNG 749 Theories: Bridge to Practice and Research Practicum (1).

NRSNG 750 Theories for Practice I: Individual, Family and Group (2).

NRSNG 751 Theories for Practice I: Practicum (1).

NRSNG 752 Theories for Practice II: Organizations, Community, Culture, and Society (2).

NRSNG 753 Theories for Practice II: Practicum (1).

NRSNG 754 Health Care Research (3).

NRSNG 755 Health Care Professionalism: Issues and Roles (3).

The Timetable of Classes is online at www.timetable.ku.edu.

Kirmayer Fitness Center is for KUMC faculty, staff, students, alumni, and their sponsored guests. Regular hours are Monday to Thursday— 5 a.m. to 10 p.m. Friday— 5:30 a.m. to 8 p.m. Saturday— 8 a.m. to 6 p.m. Sunday— noon to 10 p.m.

The myKUMC student portal gives KU Medical Center students access to online resources. Visit <https://my.kumc.edu>.

School of Pharmacy

Kenneth L. Audus, Dean
Malott Hall, 1251 Wescoe Hall Dr., Room 2056,
Lawrence, KS 66045-7582, www.pharm.ku.edu

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www.pharm.ku.edu
Phone: (785) 864-3591, Fax: (785) 864-5265
Degrees offered: Pharm.D., M.S., Ph.D.

Since its founding in 1885, the School of Pharmacy at the University of Kansas has been a leader in pharmacy education. Since 1996, the school has offered only the Doctor of Pharmacy degree as the entry-level practice degree. The curriculum has been significantly revised to give the student the knowledge, skills, and ability required of the pharmacy practitioner. The curriculum is comprehensive and produces a highly competent general practitioner.

About 55 full-time faculty members teach in the undergraduate professional Doctor of Pharmacy program and in the graduate programs. Three departments (Pharmacology and Toxicology, Medicinal Chemistry, and Pharmaceutical Chemistry) offer Master of Science and Doctor of Philosophy degrees. Pharmacy Practice offers the master's degree. Both the undergraduate and graduate divisions have outstanding national and international reputations based on the excellence and productivity of the faculty. The School of Pharmacy is fully accredited by the American Council for Pharmacy Education, 20 North Clark St., Suite 2500, Chicago, IL 60602-5109, (312) 664-3575, the official accrediting body for American pharmacy.

Admission

First-year Students

To qualify for admission to KU, **Kansas resident first-year students** must meet one of the following requirements:

- Complete the Kansas Board of Regents' Qualified Admission curriculum with at least a 2.0 grade-point average on a 4.0 scale **or**
- Achieve an ACT score of 21 or above or an SAT score of 980 or above **or**
- Rank in the top one-third of your high school graduating class.

To qualify for admission to KU, **out-of-state first-year students** must meet one of the following requirements:

- Complete the Kansas Board of Regents' Qualified Admission curriculum with at least a 2.5 grade-point average on a 4.0 scale **or**

- Achieve an ACT score of 24 or above or an SAT score of 1090 or above with a cumulative 2.0 or higher grade-point average on a 4.0 scale **or**
- Rank in the top one-third of your high school graduating class.

See Undergraduate Admissions and Scholarships in the General Information chapter of this catalog.

Prospective students should request applications from the University of Kansas Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66044-7576, (785) 864-3911, adm@ku.edu. Return completed applications to that office with necessary transcripts and records. Prospective pharmacy students should declare prepharmacy as the major field of study.

Prepharmacy students are advised by faculty members from the College of Liberal Arts and Sciences while they complete their prepharmacy course work. All students are strongly encouraged to make appointments in the office of the dean of the School of Pharmacy, 2056 Malott Hall, when they have questions concerning specific course requirements or appropriate electives or any other concerns about their preparation for pharmacy admission.

Admission to the School of Pharmacy

Students should apply to the School of Pharmacy in December for admission the following fall semester. When they apply, they should have completed, or be about to complete, the 68 credit hours of required prepharmacy courses. The required prepharmacy curriculum may be completed at accredited schools other than KU. KU students should submit a Change of School form. Students transferring from other schools should submit an application for undergraduate admission.

Requirements. Applying students should meet the following requirements:

- Complete the required prepharmacy courses and provide the required transcripts as documentation of the course work.
- Take the Pharmacy College Admissions Test, preferably in October. January test results also are accepted and considered. Have the results of the PCAT sent to KU.
- Complete and return the Applicant Profile Form sent to the student when the School of Pharmacy receives the application.
- Maintain a grade-point average of 2.5 or higher overall and in the sciences. This is the minimum grade-point average acceptable for admission.

Photo, page 378:

A pharmacy student uses a needle barrier cushion to practice drawing blood for diabetes monitoring.

Students may be admitted to the School of Pharmacy as juniors. Admission is competitive.

KU is a member of the American Association of Colleges of Pharmacy and is accredited by the American Council for Pharmacy Education, 20 North Clark St., Suite 2500, Chicago, IL 60602-5109, telephone: (312) 664-3575.

Department offices have current listings of all courses required for their majors.

- Arrange for three letters of recommendation on the school's standard reference forms to be sent to the School of Pharmacy by the persons serving as your references.
- An interview is held with selected applicants.

Procedures. The School of Pharmacy admissions committee, consisting of two faculty members from each department and representation from the office of the dean, determines admissions. A file consisting of the required documentation is created for each applicant when the application is received. Consideration is given to a student's grade-point average overall and in all science courses in the prepharmacy curriculum. The average grade point of previous entering classes has been 3.0 or higher. Good scholarship is considered a predictor of success in the pharmacy curriculum. However, good communication skills, emotional maturity, leadership ability, professional attitude, and interest in service to the community are equally important. These additional skills may outweigh very high grades or choice of prepharmacy courses. Applicant PCAT scores also are considered in the admission process. Admission is highly competitive and depends on the number of applications received and the qualifications of the applicants.

The admissions committee begins to consider applications in January each year. The application deadline is February 1, and most decisions are made by May 15. Once a student is admitted, a \$200 deposit is required to reserve space in the class. This is applied to the first semester's fees.

Visit Our Web Site

The School of Pharmacy Web site, www.pharm.ku.edu, has current information about the school. Visit the Web site for information about School of Pharmacy programs, resources, student and professional organizations, policies, and procedures.

Advising

On admission to the school, students are assigned faculty members as their advisers. The adviser serves continuously during the student's tenure in the school. Students are expected to meet with their advisers at least once each semester and are encouraged to meet more often to discuss academic issues and career and professional development.

University Honors Program

The School of Pharmacy encourages all qualified students to participate in the University Honors Program. For further information, see University Honors Program in the College of Liberal Arts and Sciences: General Requirements chapter of this catalog.

Financial Aid

General University

KU's Office of Student Financial Aid, Strong Hall, 1450 Jayhawk Blvd., Room 50, Lawrence, KS 66045-7535, (785) 864-4700, www.financialaid.ku.edu, administers grants, loans, and other need-based financial aid. In recent years, about \$29 million has been

processed annually through the office, including about \$2 million annually in short-term loans. Prospective students should contact the Office of Student Financial Aid. Some financial aid programs have application deadlines as early as January 15. The earlier an application is received and the student's file is completed, the better the chance of obtaining financial aid.

For information about scholarships based on academic merit and diversity, write or call the University of Kansas Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66044-7576, (785) 864-3911, e-mail: adm@ku.edu, Web site: www.admissions.ku.edu.

School of Pharmacy

The School of Pharmacy, in cooperation with the Office of Student Financial Aid and the Office of Admissions and Scholarships, offers financial assistance to pharmacy students. Applications are received in the dean's office according to an announced schedule each year. Awards are based on merit and need. Assistance is available for both entering and continuing students.

Requirements to Practice Pharmacy in Kansas

A license is required to practice pharmacy. State Boards of Pharmacy grant licenses to students who successfully pass board examinations. In all states, eligibility to take board examinations requires graduation from an accredited school of pharmacy and completion of required experiential training. The Kansas State Board of Pharmacy requires graduates of schools of pharmacy to indicate any current, pending, or previous convictions, fines, violations, or disciplinary action that may affect their eligibility to take the licensing examination. Pharmacists generally may transfer their licenses from a state in which they completed the entire examination to another state, provided the two states had similar practical experience requirements at the time the pharmacist was licensed by examination. Most pharmacists find it useful to maintain a license in the state where they were licensed by examination. By doing so, they can preserve their eligibility to transfer to another state.

Pharmacists in Kansas must renew their licenses biennially by paying the required fee and providing proof that they have completed the required 30 clock hours of continuing education.

The Kansas Board of Pharmacy requires completion of an appropriate degree from an accredited school of pharmacy plus 1,500 hours of practical experience in pharmacy. Students desiring to compile an official record of pharmacy experience obtained on their own initiative may register as interns with the board as soon as they are accepted into the School of Pharmacy. Practical experience also may be gained by working as a licensed pharmacist in Kansas, then transferring the hours to another state.

Regulations

Academic Misconduct

Students experiencing difficulties or problems with a particular course or having complaints or grievances

about a particular instructor are urged to discuss the problem in a timely fashion with the instructor. If the student feels awkward or uncomfortable doing this, he or she should see the chair of the instructor's department, or if necessary, the dean. The chair or dean brings the matter to the instructor's attention, preserving the student's anonymity, if so requested.

Instructors detecting academic misconduct must act in accordance with the School of Pharmacy and Faculty Senate Rules and Regulations.

Exemptions and Petitions

A student may gain an exemption from introductory prepharmacy courses by successfully completing the Advanced Placement or College Level Examination Program examinations or by other recognized means. Only the exemption is allowed. A total of 200 credit hours of college-level course work is still required for the Pharm.D. degree. Students who have completed high school physics with a grade of B or higher need not take college-level physics. In meritorious cases, the department offering the course may waive course prerequisites. Students whose educational goals would be better served by courses other than those prescribed in the normal curriculum may petition the academic standards committee for permission to make appropriate course substitutions.

Terminal-year Courses

Students cannot enroll in the principal terminal-year courses unless they have grade-point averages in professional courses of at least 2.25 and have completed all didactic course work required for the degree.

Health Insurance and Immunizations

The School of Pharmacy requires students to provide proof of health insurance coverage and immunizations for MMR, hepatitis B, varicella, tetanus, and a current TB skin test.

Other Regulations

For other regulations of the School of Pharmacy and of the University of Kansas, see the General Regulations chapter of this catalog.

Doctor of Pharmacy Degree Requirements

Prepharmacy Requirements

The Doctor of Pharmacy degree requires completion of all of the required prepharmacy and professional courses and a total of 200 credit hours with an overall and professional grade-point average of at least 2.25.

The prepharmacy requirements of 68 credit hours include a year each of English, general chemistry, and organic chemistry; calculus, interpersonal communication, biology, microbiology, human anatomy, physiology; and at least 9 hours of general studies in the humanities and social sciences. The total general studies requirement is a minimum of 30 hours, which includes the courses in English, calculus, interpersonal communication, humanities, social sciences, and other electives. A course in college physics is required if the student did not complete physics in high school with a grade of B or higher. The college physics credit hours, if required, do not count toward

the 200 credit hours required for the degree. In general, most college-level courses may be counted as part of the general studies requirements for the degree. A few exceptions are listed below. In addition to the specific exceptions, students should not expect credit for survey-type courses that cross traditional disciplinary boundaries, remedial or developmental courses, or multiple courses from one area of study.

Students are expected to have or to develop basic competence with personal computers, including word processing and database software. These skills are necessary for some class assignments as well as for future work assignments.

The maximum number of hours accepted for advanced-standing or transfer credit is 75 hours.

The following courses may not be counted:

- Activity courses in physical education or the arts (music, theatre, etc.) do not count toward the degree.
- Courses in a foreign language may not be counted as part of the humanities and social sciences requirements. However, a maximum of 6 credit hours will count as general studies.
- A maximum of 6 hours in military science may be counted toward degree requirements.
- Courses in other professional schools (e.g., engineering, education) may not be counted toward the degree unless the student can show that such courses are directly relevant to pharmacy. For example, a course in business law taken in the business school would count.

Prepharmacy Curriculum

First Year, Fall Semester (18 hours)

ENGL 101 Composition	3
CHEM 184 Foundations of Chemistry I	5
BIOL 150 Principles of Molecular and Cellular Biology	4
MATH 115 Calculus I	3
General studies	3

First Year, Spring Semester (17 hours)

ENGL 102 Critical Reading and Writing	3
CHEM 188 Foundations of Chemistry II	5
BIOL 240 Fundamentals of Human Anatomy	3
General studies	6

Second Year, Fall Semester (16 hours)

CHEM 624 Organic Chemistry I	3
CHEM 625 Organic Chemistry I Laboratory	2
BIOL 400 Fundamentals of Microbiology	3
BIOL 402 Fundamentals of Microbiology, Laboratory	2
COMS 150 Personal Communication	3
General studies	3

Second Year, Spring Semester (17 hours)

CHEM 626 Organic Chemistry II	3
CHEM 627 Organic Chemistry II Laboratory	2
BIOL 646 Mammalian Physiology	4
BIOL 647 Mammalian Physiology Laboratory	2
General studies	6

Professional Requirements

The Doctor of Pharmacy degree requires completion of all the required prepharmacy and professional courses and a total of 200 credit hours with an overall grade-point average of 2.25 and a 2.25 grade-point average in professional courses.

The curriculum includes instruction in the three basic sciences: medicinal chemistry, pharmaceutical chemistry, and pharmacology and toxicology. It also includes courses in the various aspects of pharmacy practice, including the health care system, law, and emerging roles for pharmacy practitioners. The curriculum integrates course material among departments. Assignments within the curriculum foster development of independent learning, communication

skills, problem solving, and professional motivation. The professional curriculum includes a requirement that each student must complete a minimum of 4 elective credit hours with at least 1 credit hour from each department in the program.

Some courses (specifically second-semester third-year) may require travel to the KU Medical Center campus in Kansas City. Students are responsible for their own transportation to Kansas City.

The final year of the curriculum consists of nine four-week experiential practice rotations with faculty preceptors at pharmacy practice sites throughout Kansas. These sites include the KU Medical Center campuses in Kansas City and Wichita and other sites in Lawrence, Topeka, Kansas City, Salina, Hays, Garden City, and throughout the state. Students must have their own transportation to reach their assigned sites. Housing at these sites is also the student's responsibility.

At the conclusion of the program, students are certified to the Kansas State Board of Pharmacy as having completed the entire externship requirement (1,500 hours) and are therefore eligible to take the complete Kansas licensure examination.

Professional Program

First Year, Fall Semester (14 hours)	
P&TX 630 Pharmacology I	4
MDCM 601 Medicinal Biochemistry I	4
MDCM 602 Medicinal Biochemistry Laboratory	1
PHPR 500 Early Pharmacy Practice Experience	1
PHCH 517 Pharmacy Calculations	2
PHPR 620 Ethics and Introduction to Law	1
PHAR 507 Dean's Orientation and Introduction to Pharmacy	1
First Year, Spring Semester (15 hours)	
MDCM 603 Medicinal Biochemistry II	3
PHCH 518 Physical-chemical Principles of Solution Dosage Forms	3
P&TX 631 Pharmacology II	4
PHAR 502 Pharmacy Practice II: Health-system Pharmacy Practice Fundamentals	3
PHAR 510 Integrated Laboratory I	1
PHAR 505 Immunization Theory and Practice	1
Early elective option	
Second Year, Fall Semester (15 hours)	
MDCM 625 Medicinal Chemistry I: Neuroeffector Agents	3
P&TX 632 Pharmacology III	4
PHCH 625 Pharmacokinetics	3
PHPR 503 Pharmacy Practice III: Pharmaceutical Care Fundamentals	4
PHAR 515 Integrated Laboratory II	1
Early elective option	
Second Year, Spring Semester (17 hours)	
MDCM 626 Medicinal Chemistry II: Homeostatic Agents	3
P&TX 640 Toxicology	2
PHPR 646 Pharmacotherapy I	4
PHCH 626 Biopharmaceutics and Drug Delivery	3
PHPR 619 Health Care Systems	3
PHAR 520 Integrated Laboratory III	2
Early elective option	
Third Year, Fall Semester (18 hours)	
MDCM 627 Medicinal Chemistry III: Chemotherapeutic Agents ...	3
PHPR 647 Pharmacotherapy II	4
PHPR 614 Pharmacy Management	4
P&TX 633 Pharmacology IV	3
PHAR 693 Clinical Pharmacokinetics	2
PHAR 525 Integrated Laboratory IV	1
Departmental electives	1
Third Year, Spring Semester (17 hours)	
PHPR 648 Pharmacotherapy III	4
PHCH 667 Introduction to Clinical Chemistry	2
PHPR 621 Pharmacy Law	2
PHPR 630 Drug Information/Biostatistics and Medical Literature Evaluation	4
PHPR 670 Physical Assessment	1
PHAR 530 Integrated Laboratory V	1
Departmental electives	3

Fourth Year. The fourth year is composed of 36 credit hours of experiential pharmacy practice rotations (nine four-week assignments). The required clerkships/externships include Drug Information, Hospital Externship, and Community Externship. The remaining six clerkships/externships are assigned from Pharmacy Practice Clerkship courses. Assignments are made on the basis of the student's preference, site availability, and considerations that require a minimum amount of travel for the student. The five 4-week rotations of the fall semester begin in July and conclude at the end of November. The four 4-week spring semester rotations begin in January and conclude in April. See the Pharmacy Practice (PHPR) courses with Clerkship titles for a complete listing.

Pharmacy Courses

● Medicinal Chemistry Courses

MDCM 601 Medicinal Biochemistry I (4). A study of the biochemical principles of macromolecular structure and function, molecular communication, and the metabolism of nutrients and xenobiotics as applied to problems of medicinal and pharmacological significance. Prerequisite: Concurrent enrollment in MDCM 602 Lab. LEC

MDCM 602 Medicinal Biochemistry Laboratory (1). Laboratory exercises illustrating the application of chemical principles to biochemical processes of medicinal, pharmacological, and clinical significance. Prerequisite: Concurrent enrollment in MDCM 601. LAB

MDCM 603 Medicinal Biochemistry II (3). A study of the biochemical principles of macromolecular structure and function, biosynthesis, molecular communication, and the metabolism of nutrients and xenobiotics as applied to problems of medicinal and pharmacological significance. Prerequisite: CHEM 626 and MDCM 601. LEC

MDCM 625 Medicinal Chemistry I: Neuroeffector Agents (3). A study, from the molecular viewpoint, of the organic substances used as medicinal agents, including consideration of their origins, chemical properties, structure-activity relationships, metabolism and mechanisms of action; this course emphasizes drugs affecting the central nervous system. Prerequisite: CHEM 626 and MDCM 621. LEC

MDCM 626 Medicinal Chemistry II: Homeostatic Agents (3). A continuation of MDCM 625 with emphasis on autonomic and cardiovascular agents and peripherally-acting hormones. Prerequisite: MDCM 625. LEC

MDCM 627 Medicinal Chemistry III: Chemotherapeutic Agents (3). A continuation of MDCM 625 and MDCM 626 with special emphasis on vitamins and anticancer, antiviral, antibacterial, and antifungal agents. Prerequisite: MDCM 625. LEC

MDCM 675 Introduction to Drug Design and Development (2-3). A discussion of the principles of contemporary drug design with specific examples chosen from the original literature. Prodrugs: bioisosteres; modulation of drug absorption, distribution, metabolism, and excretion; molecular dissection; rigid analogs; pharmacophores; etc., will be treated. Prerequisite: MDCM 627. LEC

MDCM 690 Undergraduate Research (1-5). Research in medicinal chemistry. Students will be assigned to a laboratory research problem. Prerequisite: Consent of instructor. IND

MDCM 691 Research Techniques in Medicinal Chemistry (1). A lecture course designed to acquaint beginning research students with basic laboratory techniques, principles of laboratory safety, use of instrumental methods for structure elucidation, and the writing of scientific reports. Prerequisite: Consent of instructor. LEC

MDCM 692 Problems in Medicinal Chemistry (1-5). This course encompasses original work on a laboratory problem of limited scope, honors reading assignments from medicinal chemistry literature, or in-depth discussions of assigned topics. Prerequisite: Consent of instructor. IND

● Pharmaceutical Chemistry Courses

PHCH 517 Pharmacy Calculations (2). An introduction to the mathematics involved in filling prescriptions and in manufacturing pharmaceuticals. Includes an introduction to standard prescription notation and familiarization with pharmaceutical weights and measures. LEC

PHCH 518 Physical-chemical Principles of Solution Dosage Forms (3). Physical properties of pharmaceutical solutions and their physiological compatibility will be discussed (intermolecular interactions, energetics, colligative properties, isotonicity, pH, buffers and drug solubility). Kinetics and mechanisms of drug degradation in solution will also be introduced. Prerequisite: PHCH 517. LEC

Pharmacists are employed by the pharmaceutical industry, government agencies, armed services, public health services, the Peace Corps, hospitals, scientific publications, drug wholesalers, and as community pharmacists.

KU's School of Pharmacy ranks third in the nation in securing funding from the National Institutes of Health, receiving more than \$13.6 million in NIH funding.

The 2006 Fiske Guide to Colleges calls KU's School of Pharmacy a standout.

PHCH 625 Pharmacokinetics (3). A discussion of the basic concepts, and some clinical applications, of pharmacokinetics, clearance concepts, extravascular dosing, and the use of pharmacokinetics in dosage regimen design and adjustment. Prerequisite: PHCH 517 and PHCH 518. LEC

PHCH 626 Biopharmaceutics and Drug Delivery (3). A study of biological barriers to drug delivery, conventional dosage forms, and new and future drug delivery strategies. Prerequisite: PHCH 517, PHCH 518, and PHCH 625. LEC

PHCH 667 Introduction to Clinical Chemistry (2). A lecture-discussion course concerned with identification of the contents of physiological fluids, changes in physiological fluid content induced by disease and drugs, and therapeutic drug monitoring: case study discussions and presentations are coordinated with the integrated laboratory. Prerequisite: Fifth-year standing and concomitant enrollment in integrated laboratory. LEC

PHCH 686 Special Topics in Pharmaceutics (1-2). A study of selected topics of current interest which are pertinent to the area of pharmacy. This course is normally reserved as a didactic one that is offered occasionally when there is a special subject to be taught for one semester only. Prerequisite: Consent of instructor. IND

PHCH 690 Undergraduate Research in Pharmaceutical Chemistry (1-5). Student will be assigned a suitable research project in the area of pharmaceutical analysis or pharmaceutics. Prerequisite: Consent of instructor. IND

PHCH 694 Problems in Pharmaceutical Chemistry (1-5). A student will be assigned a suitable research project in an area of pharmaceutical analysis or pharmaceutics. This course is offered regularly by the Department of Pharmaceutical Chemistry to meet the special needs of selected students, usually for one of the following two situations: (1) This course may be taken when a student has a special interest in a problem or area of limited scope and desires to pursue that study in depth under supervision of a member of the faculty. (2) This course is sometimes used as a remedial class to provide a mechanism of intensive review and study in an area of weakness. Prerequisite: Consent of instructor. IND

● Pharmacology and Toxicology Courses

P&TX 630 Pharmacology I (4). The pharmacology series covers the mechanisms by which drugs interact with living organisms. An integrative emphasis will be placed on understanding the molecular basis of drug action with respect to modifying the pathophysiology of specific disease states. Topics in P&TX 630 include, general principles of cell biology, molecular biology, pharmacogenomics, immunology and principles of drug metabolism and disposition. Prerequisite: Biol 646 or equivalent. LEC

P&TX 631 Pharmacology II (4). The pharmacology series covers the mechanisms by which drugs interact with living organisms. An integrative emphasis will be placed on understanding the molecular basis of drug action with respect to modifying the pathophysiology of specific disease states. Topics in P&TX 631 include, hematology, cancer biology and therapeutics, immunopharmacology, infectious diseases and respiratory disease. Prerequisite: P&TX 630 and Biol 400 or equivalent. LEC

P&TX 632 Pharmacology III (4). The pharmacology series covers the mechanisms by which drugs interact with living organisms. An integrative emphasis will be placed on understanding the molecular basis of drug action with respect to modifying the pathophysiology of specific disease states. Topics in P&TX 632 include, cardiovascular diseases, diuretics, autonomic pharmacology and drugs regulating central nervous system function. Prerequisite: P&TX 630 and P&TX 631. LEC

P&TX 633 Pharmacology IV (3). The pharmacology series covers the mechanisms by which drugs interact with living organisms. An integrative emphasis will be placed on understanding the molecular basis of drug action with respect to modifying the pathophysiology of specific disease states. Topics in P&TX 633 include endocrine disorders, diabetes and obesity, and gastrointestinal pharmacology. Prerequisite: P&TX 630, P&TX 631 and P&TX 632. LEC

P&TX 640 Toxicology (2). General principles of toxicology, treatment, and management of accidental poisoning, and current topics of interest. Prerequisite: P&TX 630, P&TX 631, and P&TX 632. LEC

P&TX 694 Undergraduate Laboratory: Research in Pharmacology and Toxicology (1-5). Original research on a laboratory problem of limited scope. This course cannot count toward pharmacology and toxicology requirements in the School of Pharmacy. Prerequisite: Consent of instructor. IND

P&TX 698 Library Problems in Pharmacology and Toxicology (1-5). Original library review of a limited special topic in pharmacology and toxicology. The student will write a review in his or her report. This course may count toward pharmacology and toxicology requirements in the School of Pharmacy. Prerequisite: P&TX 635 and consent of instructor. IND

● Pharmacy Courses

PHAR 502 Pharmacy Practice II: Health-system Pharmacy Practice Fundamentals (3). Introduction to the prescription dispensing process within health-system pharmacies (hospital, nursing home, home

health, HMO) with an emphasis on distribution systems, parenteral, and sterile products. Incorporates lectures, case studies, pharmacy visits, and laboratory experience. Prerequisite: PHPR 501. LEC

PHAR 505 Immunization Theory and Practice (1). This course will provide students with the training and resources/materials necessary to: a) identify at-risk patient populations needing immunizations, b) work with other health care professionals to establish and promote a successful pharmacy-based immunization service, c) act as either vaccine advocate or immunizer when appropriate, and d) promote public health by helping the patients they serve avoid vaccine-preventable communicable diseases. LEC

PHAR 507 Dean's Orientation and Introduction to Pharmacy (1). An introduction to the profession of pharmacy addressing issues such as 1) academic expectations, 2) professional expectations, 3) ethics, 4) various career pathways, and 5) medical communication. Students must be accepted to the school of pharmacy to be eligible to enroll. LEC

PHAR 510 Pharmacy Skills Laboratory I (1). Exercises that reinforce the concepts taught in pharmacy practice, pharmaceutical chemistry, medicinal chemistry, and pharmacology courses. Includes exercises in compounding, dispensing and patient counseling. LAB

PHAR 515 Integrated Laboratory II (1). Exercises that reinforce the concepts taught in pharmacy practice, pharmaceutical chemistry, medicinal chemistry, and pharmacology courses. Includes exercises in compounding, dispensing, and patient counseling. LAB

PHAR 520 Integrated Laboratory III (2). Exercises that reinforce the concepts taught in pharmacy practice, pharmaceutical chemistry, medicinal chemistry, and pharmacology courses. Includes exercises in compounding, dispensing, and patient counseling. LAB

PHAR 525 Integrated Laboratory IV (1). Exercises that reinforce the concepts taught in pharmacy practice, pharmaceutical chemistry, medicinal chemistry, and pharmacology courses. Includes exercises in compounding, dispensing, and patient counseling. LAB

PHAR 530 Integrated Laboratory V (1). Exercises that reinforce the concepts taught in pharmacy practice, pharmaceutical chemistry, medicinal chemistry, and pharmacology courses. Includes exercises in compounding, dispensing, and patient counseling. LAB

PHAR 690 Physical and Chemical Assessment (3). In Physical assessment, students will learn how to utilize the available instruments to take blood pressures, temperatures, doing eye/ear exams, palpate/auscultate internal organs, and the most common skin conditions seen by a pharmacist. Chemical assessment will involve the students learning how drugs and disease change physiological fluid content, identification methods, and therapeutic monitoring through case study discussion and presentations. Prerequisite: Admission into the Non-traditional Pharm.D. program. LEC

PHAR 693 Clinical Pharmacokinetics (2-3). This course presents discussions on physiological and disease state variables in pharmacokinetics for selected drugs and drug classes, and instructs students in the use of physiological and disease state pharmacokinetic information to develop individualized therapeutic regimens. Prerequisite: PHCH 625 and PHCH 626. LEC

PHAR 694 Clinical Pharmacokinetics (3). This course presents discussions and clinical examples on physiological and disease state variables in pharmacokinetics for selected drugs and drug classes, and instructs students in the use of physiological and disease state pharmacokinetic information to develop or individualized therapeutic regimens. Delivery of this course will involve some aspects of distance learning. Prerequisite: Admission into the Non-traditional Pharm.D. program. LEC

● Pharmacy Practice Courses

PHPR 500 Early Pharmacy Practice Experience (1). A course designed to reinforce the relevance of the didactic content of the curriculum and to promote early professionalization. Students will learn to interview patients and take drug histories. Students will spend time in clinical settings during this learning experience. Students must be accepted to the school of pharmacy to be eligible to enroll. FLD

PHPR 503 Pharmacy Practice III: Pharmaceutical Care Fundamentals (4). The principles of pharmaceutical care will be presented with an emphasis on identifying drug-related problems plus development and monitoring of a care plan. Drug interactions will be presented with an emphasis on evaluating the risk of the interaction in a particular patient. Patient counseling and communication techniques will be covered. Approximately half the class time will be spent covering non-prescription drugs and herbals. Prerequisite: PHPR 501 and PHAR 502. LEC

PHPR 510 Medical Terminology Elective (1). This course provides the fundamentals for developing a medical vocabulary. The student will develop the ability to understand, define and utilize medical terminology and abbreviations used in patient care. LEC

PHPR 511 Service-learning Elective (1). Students will work at a health-related community center and participate in structured learning exercises. The objectives are to: 1) enable students to learn appropriate strategies to communicate and provide services to people with varying languages, cultures, social, and economic backgrounds, disabilities, ill-

nesses, or impairments, 2) increase social interaction and citizenship, 3) heighten social awareness and understanding of ethical issues, and 4) acknowledge social responsibility and realize personal values. FLD

PHPR 600 Nuclear Pharmacy Practice (2). This introductory course in nuclear pharmacy practice provides a basic understanding of radiation, radiation dosimetry, radiopharmaceuticals, and clinical application of radiopharmaceuticals in diagnosis and treatment. The course includes both didactic material as well as laboratory experience. LEC

PHPR 612 Pharmacoeconomics and Outcomes (3). In Pharmacoeconomics and Outcomes students will study health care economics from both a macro and micro basis with a primary focus on pharmacy economic issues as applied to our health care practices as well as health outcomes research. This course will incorporate lecture, readings, case exercises, and guided discussions to accomplish these goals and will utilize distance learning techniques. Prerequisite: Admission to the non-traditional Pharm. D. program. LEC

PHPR 614 Pharmacy Management (4). A course designed to provide knowledge and skills to effect efficient and effective pharmacy management. This will include foundations in financial management, inventory control, purchasing, cost-effective drug utilization, quality management, pharmacoeconomics, and human resource management. LEC

PHPR 619 Health Care Systems (3). This course is an introduction to the organization, financing, and delivery of health care services with a focus on the U.S. health care system. Course content addresses the following questions: how do we evaluate the health care sector, where is health care provided, how is health care financed, what are the characteristics of health care providers (individuals and institutions), what influences the performance of the health care sector, and what lies in the future for health care delivery. The purpose of the course is to prepare pharmacy students for non-clinical aspects of their practice sites. Enrollment limited to pharmacy majors. LEC

PHPR 620 Ethics and Introduction to Law (1). This course provides an introduction to the fundamentals of law and ethics as they apply to the practice of pharmacy. Course sessions will focus on ethical expectations of the profession, principles and issues in medical and pharmacy ethics, and laws that govern medication dispensing. LEC

PHPR 621 Pharmacy Law (2). A course developed to increase students' knowledge and understanding of laws that regulate the pharmacy profession. Prerequisite: Fifth year standing. LEC

PHPR 622 Drug Information and Biostatistics (3). This course will provide the student with a working knowledge of drug information retrieval skills and medical literature evaluation skills with an application to pharmacy practice. Prerequisite: Admission to the non-traditional Pharm. D. program. LEC

PHPR 625 Pharmacotherapy I (3). This course focuses on the pharmacotherapy and the role of the pharmacist in disease state management of diseases and conditions including Hormone Replacement, Osteoporosis, Rheumatoid and Osteoarthritis, Lipid disorders, and Diabetes. Emphasis will be placed on the integration of pathophysiology, pharmacology, and therapeutics to devise appropriate pharmaceutical care plans. Appropriate pharmaceutical care plans will include rationale for drug use, appropriate drug selection and dosing regimens, expected outcomes of drug therapy, key monitoring parameters for efficacy and toxicity, clinically important drug-drug or drug-disease interactions, counseling, and compliance issues. The class format will include online reading assignments, interactive Internet-based lectures, and case studies. Prerequisite: Admission to the non-traditional Pharm. D. program. LEC

PHPR 626 Pharmacotherapy II (3). This course focuses on the pharmacotherapy and the role of the pharmacist in disease state management of diseases and conditions including Cancer and Infectious Diseases. Emphasis will be placed on the integration of pathophysiology, pharmacology, and therapeutics to devise appropriate pharmaceutical care plans. Appropriate pharmaceutical care plans will include rationale for drug use, appropriate drug selection and dosing regimens, expected outcomes of drug therapy, key monitoring parameters for efficacy and toxicity, clinically important drug-drug or drug-disease interactions, counseling, and compliance issues. The class format will include online reading assignments, online study guides, online assignments, interactive Internet-based lectures and case studies. Prerequisite: Admission to the non-traditional Pharm. D. program. LEC

PHPR 627 Pharmacotherapy III (3). This course focuses on the pharmacotherapy and the role of the pharmacist in disease state management of Hypertension, Ischemic Heart Disease, Myocardial Infarct, Heart Failure, Stroke, Anticoagulation, Upper GI Disorders, Asthma and COPD, and Renal Disease. Emphasis will be placed on the integration of pathophysiology, pharmacology, and therapeutics to devise appropriate pharmaceutical care plans. These plans will include rationale for drug use, selection and dosing regimens, expected outcomes of drug therapy, key monitoring parameters, clinically important drug-drug or drug-disease interactions, counseling, and compliance issues. The class format includes online reading assignments, study guides, and assignments, interactive Internet-based lectures and case studies. Prerequisite: Admission to the non-traditional Pharm. D. program. LEC

PHPR 628 Pharmacotherapy IV (3). This course focuses on the pharmacotherapy and the role of the pharmacist in disease state management of Variations in Drug Metabolism and Interactions, Hepatitis, Anti-retroviral Therapy, Skin and Soft Tissue Infections, Bone and Joint Infections, Alzheimer's Disease, Parkinson's Disease, Seizure Disorders, and Depression. Emphasis will be placed on the integration of pathophysiology, pharmacology, and therapeutics to devise appropriate pharmacy care plans. These plans will include rationale for drug use, selection and dosing regimens, expected outcomes of drug therapy, key monitoring parameters, clinically important drug-drug or drug-disease interactions, counseling, and compliance issues. The class format includes online reading assignments, study guides, and assignments, interactive Internet-based lectures and case studies. Prerequisite: Admission to the non-traditional Pharm.D. program. LEC

PHPR 630 Drug Information/Biostatistics and Medical Literature Evaluation (4). An introduction to the principles of drug information analysis, storage, and retrieval as well as biostatistics as applied to understanding and interpreting biomedical literature. Advantages and disadvantages of several commercial and manual drug information systems will be considered. The course includes practical experiences in drug information services. The biostatistical emphasis of the course will be on the application of statistical tests commonly used and the interpretation of their results. Prerequisite: Fifth year standing. LEC

PHPR 631 General Clinical Clerkship (4). Students will gain knowledge into appropriate drug therapy in patients, providing drug information to health care providers and patients, apply the laws pertaining to drug usage and acquisitions, monitor patients for drug-drug, drug-lab, and drug-food interactions, report adverse side effects, and make therapeutic suggestions to the physician. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 635 Problems in Pharmacy Practice (1-5). A course designed for the study of special topics in pharmacy practice. A research paper will be required. Prerequisite: Consent of instructor. IND

PHPR 637 NTPD Rounding Clerkship I (4). Students interview and assess patients, review laboratory data, and develop health problem lists and prospective pharmaceutical care plans in an approved NTPD site. Students must select and have approved, 8 weeks in advance, a site that provides daily access to patients for 3 consecutive days. Prerequisite: Acceptance in the NTPD program and completion of the didactic portion of the NTPD program. FLD

PHPR 638 NTPD Clerkship II (4). Students interview and assess patients, review laboratory data, and develop health care problem lists and prospective pharmaceutical care plans in an approved NTPD site. Students must select and have sites approved 8 weeks in advance of the clerkship. Prerequisite: Acceptance in the NTPD program and completion of the didactic portion of the NTPD program. FLD

PHPR 639 NTPD Clerkship III (4). Students interview and assess patients, review laboratory data, and develop health problem lists and prospective pharmaceutical care plans in an approved NTPD site. Students must select and have sites approved 8 weeks in advance of the clerkship. Prerequisite: Acceptance in the NTPD program and completion of the didactic portion of the NTPD program. FLD

PHPR 640 NTPD Clerkship IV (4). Students interview and assess patients, review laboratory data, and develop health problem lists and prospective pharmaceutical care plans in an approved NTPD site. Students must select and have sites approved 8 weeks in advance of the clerkship. Prerequisite: Acceptance in the NTPD program and completion of the didactic portion of the NTPD program. FLD

PHPR 641 NTPD Clerkship V (4). Students interview and assess patients, review laboratory data, and develop health problem lists and prospective pharmaceutical care plans in an approved NTPD site. Students must select and have sites approved 8 weeks in advance of the clerkship. Prerequisite: Acceptance in the NTPD program and completion of the didactic portion of the NTPD program. FLD

PHPR 643 Nutrition Support Advanced Clerkship (4). An advanced clerkship in nutrition support with emphasis upon parenteral and enteral nutrition. The student will round with a nutrition support team, take medication histories, review patients' nutritional status, monitor drug and nutrition therapy, provide drug information, make drug and nutrition therapy recommendations, and will counsel patients on the appropriate use of their medications and nutritional supplementation. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 646 Pharmacotherapy I (4). A course dealing with the clinical applications of drug knowledge to patient care. Disease and drug knowledge will be applied to the design and monitoring of therapeutic treatment plans for patients. Incorporates three credit hours of lecture and one credit hour of case studies and off-campus professional experience. Prerequisite: Fourth year standing. LEC

PHPR 647 Pharmacotherapy II (4). A course dealing with the clinical applications of drug knowledge to patient care. Disease and drug knowledge will be applied to the design and monitoring of therapeutic treatment plans for patients. Incorporates three credit hours of lecture and one credit hour of case studies and off-campus profes-

The KU School of Pharmacy, established in 1885, was the third state university school of pharmacy in the U.S. and is the only pharmacy school in Kansas.

Some courses may require travel to KU Medical Center in Kansas City. Students are responsible for their own transportation.

Consult the Timetable of Classes for current KU course offerings, www.timetable.ku.edu.

sional experience. Prerequisite: Fifth year standing and successful completion of Pharmacotherapy I, PHPR 646. LEC

PHPR 648 Pharmacotherapy III (4). A course dealing with the clinical applications of drug knowledge to patient care. Disease and drug knowledge will be applied to the design and monitoring of therapeutic treatment plans for patients. Incorporates three credit hours of lecture and one credit hour of case studies and off-campus professional experience. Prerequisite: Fifth year standing and successful completion of Pharmacotherapy II, PHPR 647. LEC

PHPR 650 Family Practice Advanced Clerkship (4). An advanced clerkship that provides the student experience in caring for hospitalized patients as part of a team of Family Medicine physicians, medical students, and other health care practitioners. Emphasis is placed on a multi-disciplinary approach to the overall care (medical, social, etc.) of the patient. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 652 Drug Information Advanced Clerkship (4). An advanced clerkship providing the student actual experience in taking and answering drug information questions utilizing computer data base searching, preparing, and providing information to health care professionals. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 653 Home Health Care Advanced Clerkship (4). An advanced clerkship in Home Health Care pharmacy services. The student will participate with the health care team, take medication histories, monitor drug therapy, provide drug information, provide kinetic consults, make drug therapy recommendations, and will perform patient medication education. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 654 Neonatal Advanced Clerkship (4). An advanced clerkship in neonatology. The student will round with the medical team, taking medication histories, monitoring therapy, providing drug information, providing kinetic consults, and performing discharge counseling. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 655 Pediatrics Hematology, Oncology Advanced Clerkship (4). An advanced clerkship in pediatric hematology, oncology. The student will round with the medical team, taking medication histories, monitoring therapy, providing drug information, providing kinetic consults, and performing discharge counseling. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 656 Internal Medicine Advanced Clerkship (4). An advanced clerkship in internal medicine. The student will round with an internal medicine team, provide drug information, perform kinetic consults, monitor therapy, take medication histories, and provide discharge counseling. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 657 Poison Control Center Advanced Clerkship (4). An advanced clerkship in an acute care poison control center. The student will participate with the health care team, take medication/substance histories, monitor suggested actions, provide drug information and poison information, make drug therapy recommendations, and will perform patient poison information education. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 658 Infectious Disease Advanced Clerkship (4). An advanced clerkship in infectious disease. The student will round with the infectious disease service, provide drug information, perform kinetic consults, monitor therapy, take medication histories, and provide discharge medication counseling. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 659 Renal Medicine Advanced Clerkship (4). An advanced clerkship in renal medicine. The student will round with the health care team, take medication histories, monitor drug therapy, provide drug information, provide kinetic consults, make drug therapy recommendations, and will perform patient medication education. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 660 Cardiology Advanced Clerkship (4). An advanced clerkship in cardiology. The student will round with the cardiology service, provide drug information, perform kinetic consults, monitor therapy, take medication histories, and provide discharge medication counseling. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 661 General Pediatrics Advanced Clerkship (4). An advanced clerkship in pediatrics. The student will round with the health care team, take medication histories, monitor drug therapy, provide drug information, provide kinetic consults, make drug therapy recommendations, will counsel patients on glucose monitoring equipment and will perform patient medication education. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 662 Gastroenterology Advanced Clerkship (4). An advanced clerkship in gastroenterology. The student will round with the GI service, provide drug information, perform kinetic consults, monitor therapy, take medication histories, and provide discharge medication counseling. Prerequisite: Successful completion of the Pharm.D. didactic course. FLD

PHPR 663 Critical Care Advanced Clerkship (4). An advanced clerkship in critical care/intensive care/emergency care. The student will round with the health care team, take medication histories, monitor drug therapy, provide drug information, provide kinetic consults, make drug therapy recommendations, and will perform patient medication education. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 664 Geriatrics Advanced Clerkship (4). An advanced clerkship emphasizing pharmacotherapy in geriatric patients. The student will round with the geriatric service seeing patients both in the acute case setting and in long term care facilities. The student will provide drug information, perform kinetic consults, monitor therapy for appropriate outcomes, take medication histories, and provide medication consultation. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 665 Advanced Specialized Clerkship I (4). An advanced clerkship in a specialized clinical practice area. The student will round with the physician team, provide drug information, perform kinetic consults, monitor therapy, take medication histories, and provide discharge medication counseling. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 667 Advanced Specialized Clerkship II (4). An advanced clerkship in a specialized clinical practice area. The student will round with the physician team, provide drug information, perform kinetic consults, monitor therapy, take medication histories, and provide discharge medication counseling. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 668 OB-GYN Advanced Clerkship (4). An advanced clerkship dealing with drug therapy for obstetrics and gynecology patients. The student will round with the OB-GYN service, will take medication histories, provide drug information, perform kinetic consults, monitor drug therapy for appropriate outcomes, and provide medication consultation. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 669 Oncology Advanced Clerkship (4). An advanced clerkship in oncology. The student will round with the health care team, take medication histories, monitor drug therapy, provide drug information, provide kinetic consults, make drug therapy recommendations, and will perform patient medication education. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 670 Physical Assessment (1). An introduction to the principles of physical assessment used to monitor drug effectiveness, side effects, adverse drug reactions, and drug-related complications. Prerequisite: Fifth year standing. LEC

PHPR 671 Nuclear Pharmacy Advanced Clerkship (4). Students participating in this rotation will gain practical experience in compounding and dispensing radiopharmaceutical products in a clinical setting. Additionally, students will be involved in maintaining quality assurance and regulatory compliance. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 672 Managed Care Clerkship (4). The student will spend time in a managed care setting and will analyze the appropriateness of health care dollars spent based on appropriate drug used, dosage, cost of the drug, outcome of the patient, and other factors. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 673 Formulary Management/DUE (4). The student will learn how to manage a formulary system within a hospital and will include preparation of drug evaluations for P&T meetings. The student will also collect data from patient charts to prepare DUE for P&T or hospital administration. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 674 Ambulatory Care Advanced Clerkship I (4). Students participating in this rotation will gain practical experience in monitoring drug therapy for chronic disease states. Emphasis will be placed on the effectiveness of drug therapy, toxicity, drug interactions, compliance, and patient counseling. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 675 Operating Room Clerkship (4). The student will spend time with the operating room pharmacist learning how to prepare anesthesia medical trays, anesthesia preparations, IV bags for surgery, narcotic tracking and ordering, and pain management procedures. The student will also learn about the scrubbing up procedures before entering surgical suites. The students will have an opportunity to interact with an anesthesiologist to learn about induction agents. Prerequisite: Successful completion of the Pharm.D. didactic courses. LEC

PHPR 676 Clinical Clerkship (4). A clinical pharmacy clerkship involving didactic seminar and clinical instruction in patient drug therapy using facilities of hospitals and clinics. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 677 Ambulatory Care Advanced Clerkship II (4). Students participating in this rotation will gain additional experience in monitoring drug therapy for chronic disease states. Emphasis will be placed on the effectiveness of drug therapy, toxicity, drug interactions, compli-

As a part of their course work, about 180 pharmacy students volunteer each semester in Kansas hospitals, nursing homes, health care organizations, and other agencies.

The University of Kansas was the first university to be designated a National Center for Drug Design.

KU students can access course information through Enroll & Pay, <https://sa.ku.edu>.

ance, and patient counseling. Prerequisite: Successful completion of the Pharm.D. didactic courses and Ambulatory Care I. FLD

PHPR 678 Pharmaceutical Industry Clerkship (4). Students participating in this rotation will be exposed to a variety of areas within the pharmaceutical industry. These areas may include research and development, marketing, clinical research, drug information, and/or quality assurance. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 679 Pharmacy Association Clerkship (4). Students participating in this rotation will be involved in the management of state or national professional pharmacy associations. This rotation may involve legislative, educational, professional, and financial issues. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 680 Advanced Specialized Externship I (4). An advanced full-time experiential pharmacy practice rotation that provides the student with practice experience (externship) in non-traditional practice settings such as managed care administration, governmental agencies, prisons, Indian Health Service, pharmacy organizations, pharmaceutical industry, veterinary medicine, etc. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 681 Pulmonary/Critical Care Advanced Clerkship (4). Students participating in this rotation will gain knowledge and practical skills in managing the medications of patients with pulmonary disease in the critical care setting. Emphasis will be placed on monitoring the effectiveness of drug therapy, toxicity, drug interactions and pharmacokinetics. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 682 Public Health Service Clerkship (4). Students participating in this rotation will have exposure to various government agencies that are a part of the Public Health Service. This may include the FDA, Indian Health Service, or the Federal Bureau of Prisons. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 683 Hematology Advanced Clerkship (4). Students participating in this rotation will gain knowledge and practical skills in managing the medications of patients with hematological disorders. The student will round with the health care team, take medication histories, monitor drug therapy, provide drug information, provide kinetic consults, make drug therapy recommendations, and perform patient medication education. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 684 Neurology Advanced Clerkship (4). Students participating in this rotation will gain knowledge and practical skills in managing the medications of patients with neurological disorders. The student will round with the health care team, take medication histories, monitor drug therapy, provide drug information, provide kinetic consults, make drug therapy recommendations and perform patient medication education. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 685 Hospital Pharmacy Administration (4). Students participating in this rotation will be exposed to a wide variety of areas within hospital pharmacy administration. These areas may include financial management, inventory control, purchasing, cost-effective drug utilization, quality assurance, committee involvement, and personnel issues. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 686 Hospital Externship I (4). A full-time externship of four to six weeks duration in an institutional setting. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 687 Hospital Externship II (4). A continuation of PHPR 686. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 688 Long-term Care Advanced Clerkship (4). Students participating in this rotation will gain knowledge and practical skills in managing the medications of patients in the long-term care setting. This experience will focus on dosing, side effects, and skills needed

to monitor drug therapy in the geriatric population. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 689 Pediatric Critical Care Advanced Clerkship (4). Students participating in this rotation will gain knowledge and practical skills in managing the pediatric patient in the critical care setting. The student will round with the health care team, take medication histories, monitor drug therapy, provide drug information, provide kinetic consults, make drug therapy recommendations and perform patient medication education. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 690 Community Service Clerkship (4). Students participating in this rotation will gain knowledge and practical skills in managing the medications of medically uninsured patients. The student will learn the procedures for obtaining free medications for indigent patients, take medication histories, monitor drug therapy, provide drug information, and perform patient medication education. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 691 Diabetes Advanced Clerkship (4). Students participating in this rotation will gain knowledge and practical skills in managing the medications of the diabetic patient. The student will take medication histories, monitor drug therapy, provide drug information, and perform patient medication education. They will also learn to use and evaluate various methods of glucose testing. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 692 Veterinary Medicine Clerkship (4). Students will participate in daily rounds of hospitalized animals providing drug information, interview owners of animals being seen in clinic, observe surgical and radiology procedures, learn the federal requirements of drug use in food stock animals, and zoo acquisitions. Students will be required to sign a liability release form when taking this rotation. Prerequisite: Successful completion of Pharm.D. didactic courses. FLD

PHPR 693 Psychopharmacy Advanced Clerkship (4). An advanced clerkship in a specialized clinical practice area. The student will round with the physician team, provide drug information, perform kinetic consults, monitor therapy, take medication histories, and provide discharge medication counseling. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 694 Drug Utilization Review Clerkship (4). Students will learn how to perform a retrospective study using both large and small data bases to obtain information to therapeutic questions. The student will also learn how to apply the appropriate statistics to the data, interpretation of the information, and writing up the study into a publishable format. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 695 Investigational Drugs Clerkship (4). Students will learn how to monitor, report, control, and distribute investigation drugs in clinical drug trials. The student will also learn how to interact with the drug company sponsoring, the physicians prescribing, and the patients who are included in the these trials. The students will also be involved with the Human Subjects Committee paperwork associated with enrolling patients into the trials. Prerequisite: Successful completion of the Pharm.D. Didactic courses. FLD

PHPR 696 Community Externship I (4). A full-time externship of four to six weeks in duration in a community practice setting. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 697 Community Externship II (4). A continuation of PHPR 696. Prerequisite: Successful completion of the Pharm.D. didactic courses. FLD

PHPR 699 Seminar (1). This course provides the student the opportunity to develop and present a formal seminar on a drug therapy management subject using appropriate audiovisual aids and to defend their presentation of material. LEC

School of Social Welfare

Mary Ellen Kondrat, Dean
 Twente Hall, 1545 Lilac Lane, Room 212,
 Lawrence, KS 66044-3184, www.socwel.ku.edu

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School of Social Welfare

Mary Ellen Kondrat, Dean
Rick Spano, Associate Dean, Academic Programs
Vicki Mignot, Pre-Social-Work Advising Coordinator
 Twente Hall, 1545 Lilac Lane, Room 107
 Lawrence, KS 66044-3184
admissionsBSW@ku.edu or www.socwel.ku.edu
 Phone: (785) 864-8976, Fax: (785) 864-5277
 Degrees offered: B.S.W., M.S.W., Ph.D.

Social work develops the capacity for caring, to help people in need. Connecting individuals and groups with the resources within themselves and their communities is the social worker's contribution to society.

The School of Social Welfare provides the education and experience necessary for a career in social work, using a strengths perspective. The field is based on knowledge drawn from the social sciences and its own research and practice. It has a code of ethics, practice standards, and a nationwide system of accredited education programs to meld the desire to help others with the skill and knowledge needed to provide that help.

The undergraduate program prepares graduates for beginning generalist social work practice. The program defines generalist practice as maintaining focus on the interface between systems—individuals, families, groups, organizations, and communities.

The B.S.W. program also is offered at Kansas City Kansas Community College as a 2+2 degree-completion program. If you are interested, contact our adviser at (913) 288-7304 to make an appointment.

Admission

First-year students enter the College of Liberal Arts and Sciences and complete two semesters of work (30 credit hours) before applying to the B.S.W. program.

Requirements

- Submission of completed application forms, including three letters of recommendation.
- A grade-point average of 2.5 or above.
- Completion of 30 hours of course work, including mathematics and English composition I and II.

Grade-point Average

Evaluation of transcripts submitted as part of the application for admission includes computation of grade-point average for all work completed. This admission grade-point average is adjusted to include only courses that transfer. A student must maintain a minimum cumulative grade-point average of 2.5 and a 2.5 in social work required courses.

Admission Process

Students are admitted for fall semester only. Applications are accepted three times a year.

KU Students with 30 Hours of Credit

- Complete a Change of School application in the B.S.W. Office, 107 Twente Hall.
- Submit a B.S.W. application, available in 107 Twente Hall, and letters of recommendation (see application).

When? Must be received by February 1 or October 1 for review.

Transfer Students

- Submit an application to KU through the Office of Admissions and Scholarships, indicating Social Welfare choice.
- Also submit a B.S.W. application, available from 107 Twente Hall. Call (785) 864-8976, or write for a form, or send e-mail to admissionsBSW@ku.edu.

When? Must be received by February 1, October 1, or June 1.

Visit Our Web Site

The School of Social Welfare Web site, www.socwel.ku.edu, has current information about the school. Visit the Web site for information about School of Social Welfare programs, faculty, resources, policies, and procedures.

Advising

While Deciding on a Major. Early advising is recommended for students interested in social work. Pre-social-work students (both KU and transfer) are encouraged to obtain advising through the school during each enrollment period.

From Another College. For students who plan to transfer to KU but currently attend another college, advising is available by phone or mail. The school works closely with counselors from all Kansas colleges.

Once Admitted. A member of the school's faculty is assigned as an adviser to help the student with course selection, career plans, and academic needs. The adviser reviews the student's academic progress to help ensure that degree requirements are fulfilled.

Consult your School of Social Welfare adviser before enrollment each semester.

Four semesters, beginning in the fall semester, are necessary to complete professional social work courses required for the degree.

Photo, page 388:
Social workers help to connect individuals and groups with the resources within themselves and their communities.

Transfer of Credit

Transfer of credit allows specific course work from other accredited colleges or universities to count toward the B.S.W. degree. Decisions to accept prior credits are made by KU's transcript evaluator during the admission process. Exceptions must be petitioned through the B.S.W. director. Petitions must be accompanied by a catalog description and a syllabus of the course and submitted at the time of application. Community college equivalents to KU courses are available from the school or through community college counselors. A maximum of 64 credit hours from a community college may be transferred toward the B.S.W. degree.

The B.S.W. program is offered as a 2+2 degree-completion program at Kansas City Kansas Community College. For more information, call (913) 288-7304.

Advising for pre-social-work students is important. Sign up in 107 Twente Hall.

Fall social work classes are prerequisite to spring classes. Submit applications at least one semester before any fall semester.

The 2006 Fiske Guide to Colleges calls KU's School of Social Welfare a standout.

University Honors Program

The school encourages all qualified students to participate in the University Honors Program. This program offers outstanding students an expanded opportunity to develop special abilities and interests. See University Honors Program in the College of Liberal Arts and Sciences: General Requirements chapter of this catalog, or call (785) 864-4225, www.honors.ku.edu.

Financial Aid

Apply to KU's Office of Student Financial Aid, Strong Hall, 1450 Jayhawk Blvd., Room 50, Lawrence, KS 66045-7535, (785) 864-4700, Web site: www.financialaid.ku.edu. The KU Office of Admissions and Scholarships, KU Visitor Center, 1502 Iowa St., Lawrence, KS 66044-7576, (785) 864-3911, e-mail: adm@ku.edu, Web site: www.admissions.ku.edu, administers scholarships and financial aid based on academic merit.

Employment

Some employment opportunities for B.S.W. social workers include

- Child protection, foster care, and adoption services.
- Services in community centers, juvenile courts, and residential treatment centers.
- Women's counseling and shelter facilities.
- Family services, substance abuse, illness, and unemployment services.
- Community services for the mentally ill.
- Services for the elderly in home care, nursing homes, and senior centers.
- Services for offenders and their families in community corrections programs.

Regulations

For information about University of Kansas regulations, see the General Regulations chapter of this catalog.

Grading

Courses offered by the School of Social Welfare are graded A, B, C, D, F, and in practicum Satisfactory/Unsatisfactory. Plus/minus grades are calculated in the overall grade-point average. S grades count as hours toward graduation but are not computed in the

grade-point average. U grades do not count toward graduation. The translation of grades follows:

- A—work of marked excellence indicating high honor
- B—work of higher-than-average quality
- C—work of average quality
- D—work of the lowest quality that would allow a student to pursue the next dependent course
- F—unsatisfactory work
- I—incomplete work. See the *School of Social Welfare Catalog*.

The Office of the University Registrar sends grade information to students each semester.

Credit/No Credit. An undergraduate may elect to be graded CR (Credit) or NC (No Credit) in one course each semester. This option is not available for any required social work courses. Complete the CR/NC form at the School of Social Welfare office during the third and fourth weeks of the semester or during the second week of the summer session. After the close of the option period, the student may not alter the decision. Instructors are not informed of this option and assign conventional grades, which the Office of the University Registrar converts to CR or NC grades. CR is given for A, B, or C work, and NC is used for D and F.

Withdrawal

A student who must withdraw from school should discuss the matter with the adviser and complete the appropriate procedures in the office of the School of Social Welfare.

Graduation with Distinction

The top 10 percent of the graduates of the B.S.W. program each year receive degrees with distinction.

Bachelor of Social Work Degree Requirements

Primary responsibility for meeting graduation requirements rests with the student.

- A minimum of 124 credit hours of course work, including 10 credit hours of field practicum. At least 24 of the last 30 hours must be taken in residence.
- A 2.5 minimum grade-point average for all classroom work.
- A 2.5 minimum grade-point average in required social work courses.
- Recommendation by the faculty of the school to the chancellor and the Kansas Board of Regents that the degree be granted.

Curriculum

Professional Socialization (SW 220, SW 623). Students prepare for the responsibilities of social work, involving professional functioning, knowledge and use of professional ethics, values, attitudes, and skills. Students analyze their values critically to develop a unified personal and professional framework. Students develop their professional commitment to a code of ethics and understanding of social work to govern their professional behavior.

(continued on page 392)

Liberal Arts Prerequisites for a broad base of understanding

General Area	Subject	Course Requirements
Communication skills	English	<input type="checkbox"/> ENGL 101 and <input type="checkbox"/> ENGL 102 and <input type="checkbox"/> any ENGL 200 or above literature course (except Literature for Children)
	Language facility (Comm. studies, linguistics, foreign language)	<input type="checkbox"/> COMS 130 or exemption (not COMS 150) and <input type="checkbox"/> One of the following: COMS _____ (communications theory); or LING _____; or Foreign language 2nd course _____
Mathematics		<input type="checkbox"/> MATH 101 or MATH 104 Students must complete mathematics requirements before admission to the B.S.W. program.
U.S. cultural studies	American social structures	(Survey of U.S. history or political science, e.g., History of the U.S. through the Civil War) <input type="checkbox"/> One course, for example: HIST 128 _____; POLS 110 _____; SOC 330 _____; HIST 129 _____; POLS 310 _____
	American value systems	(How American religious/ethical systems reflect the nation's values, e.g., Social Problems and American Values) <input type="checkbox"/> One course, for example: SOC 160 _____; PHIL 160 _____; REL 171 _____; REL 585 _____; SOC 330 _____
Western civilization		(Transfer students: Not all Western civilization courses transfer as Western civilization.) <input type="checkbox"/> HWC 204 and <input type="checkbox"/> HWC 205
Intercultural studies	Studies in civilization	(A non-Western civilization's history, religion, culture, e.g., Introduction to Africa) <input type="checkbox"/> One non-Western civilization course, for example: AAAS 103 _____; EALC 106 _____; ECIV 104 _____;
	Comparative studies	(Similarities, differences, & interaction between societies, e.g., Cultural Anthropology) <input type="checkbox"/> One of the following courses: ANTH 108 _____; ANTH 308 _____; ANTH 160 _____; POLS 150 _____; POLS 170 _____; ANTH 382 _____; HIST 120 _____
Child & adolescent development		<input type="checkbox"/> One of the following courses: ABSC 160 _____; PSYC 333 _____
Bio-psycho-social studies		<input type="checkbox"/> BIOL 100 & 102 (One course & natural science lab) <input type="checkbox"/> Economics (One course) <input type="checkbox"/> PSYC 104
		<input type="checkbox"/> Political Science (One course) <input type="checkbox"/> SOC 104
Electives	(usually 18-21 hours)	<input type="checkbox"/> As needed to complete 124 hours

Students may minor in a College of Liberal Arts and Sciences discipline by successfully completing 18 hours in that discipline, as required by CLAS. Consult a CLAS adviser for more information.

Social Welfare

Requirements for the Major in Social Work

Social Work	Year	Course Requirements
Social work	Preprofessional course	<input type="checkbox"/> SW 220 The School of Social Welfare requires students to take SW 220 before entering senior-level classes.
	Junior year	Fall: <input type="checkbox"/> SW 530 <input type="checkbox"/> SW 555 <input type="checkbox"/> SW 540 Spring: <input type="checkbox"/> SW 510 <input type="checkbox"/> SW 541 <input type="checkbox"/> SW 532
	Senior year	Fall: <input type="checkbox"/> SW 610 <input type="checkbox"/> Two of SW 630/631/632/633 <input type="checkbox"/> SW 620 Spring: <input type="checkbox"/> SW 612 <input type="checkbox"/> SW 621 <input type="checkbox"/> SW 623 Fall & Spring: <input type="checkbox"/> Practicum: SW 601

(continued from page 390)

Human Behavior and the Social Environment

(SW 530, SW 532). Students acquire a knowledge and understanding of individual, group, community, institutional, and cultural dynamics and behavior. Students become familiar with concepts, theories, and empirical findings that enable them to practice effectively as professional social workers.

Research (SW 540, SW 541). Students achieve a command of fundamental social work research. A knowledge of the scientific method is acquired and applied to current research. Students learn to apply critical thinking to the professional literature.

Social Work Practice (SW 510, SW 555, SW 560, SW 610, SW 612, SW 630, SW 631, SW 632, SW 633). Students acquire knowledge and skills needed for effective social work practice. The accumulated knowledge and understanding of the social work curriculum come together in the practice courses.

Social Policy (SW 620, SW 621). Students develop the capacity for critical analysis of social problems, policies, and programs. Students analyze social work practice to understand the effect of policy on direct service. Basic policy analysis skills acquired in the first course are applied in specified areas of practice, applying analytical skills to problems, policies, and programs.

Field Practicum

The field practicum office works with community agencies throughout Kansas and western Missouri to provide field education opportunities for students. Students are placed in these agencies through a collaborative process among the practicum office, the student, and the agency. The field practicum office is responsible for ensuring that all field placements are able to provide the appropriate learning opportunities for students and that qualified field instructors will be available to the student. The practicum office arranges all placements.

Field placements are mainly in the Kansas City and Topeka areas, with a limited number of settings in Lawrence, Leavenworth, and other Kansas and Missouri communities. **Students are responsible for transportation to the assigned field practicum.** Most agencies also require a student to have transportation available for agency assignments.

B.S.W. students have one practicum placement during the senior year, concurrent with enrollment in the practice courses. Senior B.S.W. students attend classes two days a week and field practicum two days a week throughout fall and spring semesters. Seniors spend a minimum of 480 clock hours in practicum. Practicum is a 10-credit-hour, year-long course graded on an S/U basis. A satisfactory (S) grade is a requirement for the B.S.W. degree. At the end of the first semester, a grade of P is given for satisfactory progress toward completion of the course. No credit is given for partial completion (fewer than 10 credit hours) of practicum.

An orientation is held in the fall, before the beginning of classes, for all students entering a field

practicum and the field liaisons who represent the school. The Field Practicum Handbook explains practicum-related expectations and policies. Students are responsible for the material in the handbook.

Because of the necessity for continuity in client service and learning, the maximum time for a break between semesters in practicum is three weeks, regardless of time allowable according to the university calendar.

● Social Welfare Courses

SW 210 Contemporary Social Topics: ____ (1-3). This course provides the opportunity for experimentation with innovative course content and unique learning strategies in accordance with guidelines established by faculty. Subjects offered as topics include Training for Diversity, Organizing in Underserved Communities, etc. LEC

SW 220 Social Work, Social Welfare, and U.S. Society (3). SF S An introduction to the field of social welfare and its relationship to the social work profession, charged with carrying out its primary missions. Specific social welfare policies will be analyzed, particularly as those policies affect individuals and families in need. LEC

SW 303 Human Sexuality in Everyday Life (3). An introductory course which focuses on assisting students to understand their own and others' sexual development and expression, as found in attitudes, beliefs, and behaviors. Physiological, psychological, and social/cultural aspects of human sexuality will be reviewed. The format of the course will include: lectures, discussion, value clarification exercises, and the use of explicit audio-visual materials. LEC

SW 304 Pills and Booze: An Historical, Political, and Social Discourse on Chemical Addictions (3). This course focuses upon drug and alcohol addiction, its sequela treatment models, and their effectiveness. Overarching questions will include acceptance of chemical addiction as a disability and interdiction policies. Students should expect to spend time in various community learning environments. LEC

SW 305 Studies in Diversity and Difference: A Contemporary Approach (3). This class will approach the study of diverse populations in the United States from social, literary, and political perspectives. Stories (both fiction and non-fiction), essays, and commentaries will be used to enable students to learn about the importance of understanding diversity, the experiences of diverse populations in our midst, and the means by which the barriers that prevent cross-cultural understanding may be removed. LEC

SW 310 Managing Stress: Principles and Techniques for Coping, Prevention, and Wellness (3). Covers major stress-management techniques, helping others cope with stress, and promoting wellness. Concepts, theories, and models of stress, psychological basis for stress, relationship between personality and stress, family and social stress, job stress, dissatisfaction, and burnout are discussed. Enroll through Continuing Education. LEC

SW 410 Professional Writing Skills in Social Work (3). Students learn the principles of organizing, developing, writing and revising documentation for different professional social work settings. Student will master basic writing skills and become proficient in several types of social work writing styles. LEC

SW 420 Social Work in Urban Settings (3). Students gain knowledge about the historical and current relationships between the definition of social problems, the development of social welfare policies, and the delivery of social services in urban settings. Students will learn to access current policies and practices as they impact local communities in the Kansas City area. LEC

SW 490 Directed Readings (1-3). Individual and supervised readings in selected areas of social welfare. Prerequisite: Consent of instructor and approval by dean's office. IND

SW 510 Fundamentals of Social Work Practice (3). Introduces the basic concepts of social work practice including the focus and context of practice, the nature of a social work relationship; basic skills and techniques common to practice such as interviewing, engagement, information gathering, etc. Introduction to problem solving and social work roles. Prerequisite: SW 530, SW 540, and SW 555. LEC

SW 530 Human Behavior in the Social Environment (3). A study of theoretical frameworks for understanding human behavior. The theories include the developmental stages across the life cycle, abnormal behavior compared to normal, analysis of family and societal processes and their effects on the individual, and individual behavior in relation to social class, ethnicity, and cultural background. Junior social work classification required. LEC

KU's School of Social Welfare emphasizes the contribution of minorities to the profession of social work and to society.

Take SW 220 if you are considering a social work degree or if you are interested in social values and programs. Students in any school can enroll in SW 220.

Consult School of Social Welfare advisers before enrollment each semester.

The Timetable of Classes is online at www.timetable.ku.edu.

SW 532 Community and Organizational Dynamics and Human Behavior (3). An analysis of community and organizational life with emphasis on human behavior dynamics. Systems operation and change are considered and related to social functioning, especially as it impinges on social welfare objectives. Junior social work classification required. LEC

SW 540 Fundamentals of Research in Social Work (3). An examination of the basic concepts and principles of scientific inquiry as applied to the social work profession's quest for and utilization of knowledge. Positivistic and naturalistic methods of inquiry are covered. Other content includes conceptualization, operationalization, sample design, ethics, and client participation in the research process. Junior social work classification required. LEC

SW 541 Social Work Research Seminar (3). Focus is on applying material learned in SW 540 to the critique of empirical work in the social work arena and to the development of a proposal for a practice-based research project. Emphasis on assessing relevance of research to special populations. Content on the interpretation of graphs, tables, and statistical measures provided. Prerequisite: SW 540. LEC

SW 555 Topics in Diversity: ____ (3). This class focuses both generally on human diversity and the consequences of minority status in U.S. society, and specifically on how social work is practiced with one particular minority group. The specific focus may change from semester to semester. Junior social work classification required. LEC

SW 560 Topics in Social Welfare: ____ (1-3). This course covers a variety of topics on a rotating basis. These topics may include, but are not limited to, practice issues pertaining to child welfare, alcohol and other drug abuse, social work in health care settings, etc. Junior Social Work classification required. LEC

SW 601 Field Practicum (5). Students are assigned to social service agencies that provide generalist practice opportunities under the supervision of a qualified field instructor. This provides students with the opportunity to apply and test social work knowledge, values, and skills within an approved practice setting in order to gain competency as beginning social workers. This course is taken for two semesters (fall-spring), with credit being given only after completion of the second semester. Enrollment in this course must be concurrent with enrollment in SW 610 and SW 612. FLD

SW 609 Field Experience (2). This course is designed specifically to meet the needs of those participating in alcohol and substance abuse credential process through the Professional and Community Education Program. Students will be placed in an alcohol and drug setting and must complete 100 clock hours as part of the course requirements. FLD

SW 610 Social Work Practice Seminar I (3). Focuses on learning and implementing the problem-solving and interaction models of practice to be applied to individuals, families, and small groups. Concurrent with SW 601, practicum; students bring issues with clients to class for discussion. Open only to BSW seniors. Prerequisite: SW 510. LEC

SW 611 Case Management (3). The philosophy, knowledge, and skills necessary for the practice of effective case management with a variety of client groups: the mentally ill, the elderly, and children at risk etc. Both didactic and experiential learning techniques are used. Open only to BSW seniors. LEC

SW 612 Social Work Practice Seminar II (3). Second of two-course sequence extends the work begun in SW 610. Examines interventive strategies applicable to practice with larger systems. Models of community organization and community development are presented. Concurrent with SW 601, practicum; students work on individualized, agency-related projects. Prerequisite: SW 610. LEC

SW 620 Social Policy and Program Analysis I (3). A conceptual model for the analysis of social welfare problems and policies is developed. The framework is applied to the problem of poverty and major policies and programs developed to cope with that problem. In addition the model is used to examine social welfare problems/needs being addressed in the students' practicum agencies. The focus throughout is on the understanding and application of the analytic framework. Open only to BSW seniors. LEC

SW 621 Social Policy and Program Analysis II (3). The course builds on SW 620 using the conceptual model to examine a range of social welfare problems/needs, policies and programs. These areas include children/families and the elderly, as well as major problem/policy areas of mental health, developmental disabilities, juvenile justice, adult corrections, and housing and homelessness. Emphasis is on advancing student's understanding and skills for using the analytic framework. Attention given to the role of social workers in the legislative process for shaping social welfare policies. Prerequisite: SW 620. LEC

SW 623 Seminar in Professional Issues (3). Seminar in the philosophy, values, and issues in contemporary social work and social welfare. Seminar will address areas such as conception of profession and professionalism, standards, licensing, and professional regulation, accountability and professional responsibility. Senior social work classification required. LEC

SW 630 Topics in Social Work Practice: Antisocial, Aggressive Behavior in Childhood and Early Adolescence (1.50). This course explores the theories and methods related to practice with children whose behavior is disruptive, oppositional, aggressive, or otherwise antisocial. Emphasis is placed on using protective and risk factors to design appropriate interventions. Open only to BSW seniors. LEC

SW 631 Topics in Social Work Practice: Intimate Partner Violence (1.50). This course provides students with a beginning understanding of intimate partner violence including definitions, prevalence, theoretical frameworks, dynamics, and consequences for the individual, the family, the community and society. Students will develop skills required to assess, intervene, and prevent domestic violence cases. Open only to BSW seniors. LEC

SW 632 Topics in Social Work Practice: Substance Abuse and Social Work Practice (1.50). This course will offer BSW students a very basic understanding of concepts associated with social work practice with people who confront challenges with alcohol and other drugs. Students will learn about substance abuse problems currently prevalent, recognize behavior related to substance abuse disorders and applicability of generalist social work practice models in developing interventions. Open only to BSW seniors LEC

SW 633 Topics in Social Work Practice: Crisis Intervention (1.50). This course will provide undergraduate social work students with a basic introduction to crisis intervention, including theoretical models, the evolution and use of crisis theory and the design of interventions across a broad range of crisis situations. Open only to BSW seniors. LEC

Other Programs

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www.ku.edu

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Photo, page 394:
A KU student experiences marine biology in Bonaire, Dutch Antilles. KU ranks fourth among U.S. public research institutions in the proportion of its students who study abroad.
Photo by Alex Gallain-Westby.

Other Programs

Applied English Center

Director: Charles Seibel, aec@ku.edu
Lippincott Hall, 1410 Jayhawk Blvd., Room 204
Lawrence, KS 66045-7515
(785) 864-4606, www.aec.ku.edu

Applied English Center courses provide English language instruction to non-native speakers of English. All international students whose native language is not English, including foreign students and residents or citizens of the United States, are required by the Faculty Senate Rules and Regulations to enroll in the English language courses, if any, specified for them by the AEC before enrolling in any academic work. Admission to KU does not constitute a waiver of the English proficiency requirement from the Applied English Center.

Courses labeled ESLP are available for credit toward an undergraduate degree, with these limitations: to earn credit, students must receive a grade of A, B, or C in the course and pass the section(s) of the AEC Proficiency Test Battery related to the course, at the end of the semester. Transcripts will show No Credit for ESLP courses in which students do not meet the above criteria. Credit is awarded in three areas: Grammar for Communication, Speaking and Listening, and Reading and Writing. Students can only accrue a maximum of 5 or 6 credits in each of the three areas, for a maximum of 16 hours. Once proficiency is achieved in any of the three areas, no more credit is awarded in that area. A maximum of 9 hours of credit may count toward undergraduate degrees in the College of Liberal Arts and Sciences, the School of Architecture and Urban Design, and the School of Business.

● Applied English Courses

AEC 002 General English as a Second Language (2). U Practice in informal speaking and writing and in listening and reading. For those non-native speakers of English not enrolled in a degree program who wish to improve their English and are not required to carry a full course of study in the United States. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 006 Special Enrollment in English as a Second Language (1-16). U Individualized schedule of instruction in one or more skills at appropriate level(s) for students enrolling in AEC courses. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 008 Tutorials in English as a Second Language (0.50-10). U Individualized tutorial instruction in one or more skills at appropriate level(s). Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 009 Laboratory Practice (1-2). U Practice in a laboratory setting in speaking, listening, reading, writing, or grammar. Prerequisite: Placement in this course by the Applied English Center. LAB

AEC 012 Speaking and Listening for Academic Purposes I (3-5). U A course designed to provide practice at the level appropriate for upper-elementary English students in pronunciation, fluency, vocabulary development, and comprehension. Students work with several topics

during the semester, building skills in listening to oral texts, taking notes, discussing content, debating, interviewing, summarizing, and giving presentations. Written work is also required. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 014 Reading and Writing for Academic Purposes I (3-5). U A course designed to teach upper-elementary students basic strategies for improving their reading and writing. At this level the emphasis is on increasing fluency and building vocabulary. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 016 Grammar for Communication for Academic Purposes I (3-5). U A communicative course designed to help upper-elementary students acquire basic sentence- and discourse-level grammar and basic vocabulary to allow them to begin to express meaning appropriately and accurately in spoken and written English. Students participate in a wide variety of in-class and out-of-class activities including group projects. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 022 Speaking and Listening for Academic Purposes II (3-5). U A course designed to provide practice at the level appropriate for lower-intermediate English students in pronunciation, fluency, vocabulary development, and comprehension. Students work with several topics during the semester, building skills in listening to oral texts, taking notes, discussing content, debating, interviewing, summarizing, and giving presentations. Written work is also required. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 024 Reading and Writing for Academic Purposes II (3-5). U A course designed to teach lower-intermediate students strategies for improving their academic reading and writing. At this level students work toward improved fluency and vocabulary, with greater emphasis on developing academic skills such as note-taking, paraphrasing, summarizing, and integrating ideas from several sources into academic writing. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 026 Grammar for Communication for Academic Purposes II (3-5). U A communicative course designed to help lower-intermediate students acquire sentence- and discourse-level grammar and vocabulary to allow them to express meaning appropriately and accurately in spoken and written English. At this level, students are introduced to more and increasingly complex sentence structures and vocabulary, which they practice in a wide variety of in-class and out-of-class activities including group projects. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 032 Speaking and Listening for Academic Purposes III (3-5). U A course designed to provide practice at the level appropriate for upper-intermediate English students in pronunciation, fluency, vocabulary development, and comprehension. Students work with several topics during the semester, building skills in listening to oral texts, taking notes, discussing content, debating, interviewing, summarizing, and giving presentations. Written work is also required. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 034 Reading and Writing for Academic Purposes III (3-5). U A course designed to teach upper-intermediate students strategies for improving their academic reading and writing. At this level emphasis is placed on increasing fluency, deepening vocabulary, and refining academic skills such as note-taking, paraphrasing, summarizing, and integrating ideas from several sources. Critical reading and writing and the process of writing a research paper are introduced. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in the course by the Applied English Center. LEC

AEC 036 Grammar for Communication for Academic Purposes III (3-5). U A communicative course designed to help upper-intermedi-

**Photo, page 396:
KU enrolls more
than 1,500
international
students from
more than 100
countries. KU was
one of only five
U.S. universities
to receive the
2005 Senator Paul
Simon Award for
Campus Interna-
tionalization.**

Applied English Center courses are open to students whose first language is not English.

For a complete catalog of college courses available through Independent Study, contact Independent Study Student Services, 1515 St. Andrews Dr., Lawrence, KS 66047-1625, (785) 864-5823 or (877) 404-5823 (toll-free).

Visit Independent Study online at www.ContinuingEd.ku.edu.

ate students acquire sentence- and discourse-level grammar and vocabulary to allow them to express meaning appropriately and accurately in spoken and written English. At this level, students are introduced to more and increasingly complex sentence structures and vocabulary, which they practice in a wide variety of in-class and out-of-class activities including group projects. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 070 Topics in English for Specific Purposes: ____ (0.50-16). U Specialized English language and/or orientation courses for students in short-term programs at the elementary or intermediate level, focused on the use of English in particular fields of study or employment. Prerequisite: Placement in this course by the Applied English Center. LEC

AEC 082 Classroom Communication for International Teaching Assistants (3-4). U Practice of communication skills: pronunciation, fluency and vocabulary development, question and answer techniques, paraphrasing and discussion; videotaped practice teaching mini-lectures or demonstrations with feedback by instructor in tutorial sessions and by other native speakers during presentations. Open only to graduate students or undergraduate seniors. Prerequisite: Students must have completed all AEC courses except ESLP courses numbered above 120 AND have these two scores: at least 160 on the listening section of the AEC proficiency test or a score of at least 23 (computer-based test) or 57 (paper-based test) on the Listening Section of the TOEFL AND at least 200 on the SPEAK test; AND placement in this course by the Applied English Center. Four credits in the fall and spring semesters; three credits in the summer term. LEC

AEC 090 English Proficiency Test (0). U Final proficiency test. Required of all students enrolled in one or more Applied English Center courses, except AEC 82. Graded satisfactory/unsatisfactory. LEC

● English as a Second Language Courses

ESLP 100 Special Enrollment in English as a Second Language (1-16). U Individualized schedule of instruction in one or more skills at appropriate level(s) for students enrolling in AEC courses. Prerequisite: Placement in this course by the Applied English Center. LEC

ESLP 102 Speaking and Listening for Academic Purposes IV (3-5). U A course designed to provide practice at the level appropriate for advanced English students in pronunciation, fluency, vocabulary development, and listening comprehension. Students work with several topics during the semester, refining skills in listening to oral texts, taking notes, discussing content, debating, interviewing, summarizing, and giving presentations. Written work is also required. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

ESLP 104 Reading and Writing for Academic Purposes IV (3-5). U A course designed to teach advanced students strategies for improving their academic reading and writing. At this level students work to achieve a high level of fluency, vocabulary, and academic skills such as summarizing, responding to test questions, and integrating ideas from several sources. There is strong emphasis on critical reading and writing, and the production of a research paper. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

ESLP 106 Grammar for Communication for Academic Purposes IV (3-5). U A communicative course designed to help advanced students acquire sentence- and discourse-level grammar and vocabulary to allow them to express meaning appropriately and accurately in spoken and written English. At this level, master increasingly complex sentence structures and vocabulary, which they practice in a wide variety of in-class and out-of-class activities including group projects. Five credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

ESLP 108 Tutorials in English as a Second Language (0.50-10). U Individualized tutorial instruction in one or more skills at appropriate level(s). Prerequisite: Placement in this course by the Applied English Center. LEC

ESLP 109 Laboratory Practice (1-2). Practice in a laboratory setting in speaking, listening, reading, writing, or grammar. Prerequisite: Placement in this course by the Applied English Center. LAB

ESLP 110 Advanced English for Academic Purposes V (4-6). U A content-based capstone course offering advanced instruction in analyzing university-level written and spoken materials. Students are required to write response papers, take essay tests, make oral presentations, and complete an in-depth research project related to the course content. Prerequisite: Placement in this course by the Applied English Center. LEC

ESLP 122 Special Studies in Speaking and Listening (3-4). U An individualized course designed to provide polish for very advanced English students in pronunciation, fluency, vocabulary development, and comprehension. Students work with several topics during the semester, building skills in listening to oral texts, taking notes, discussing content, debating, interviewing, summarizing, and giving

presentations. Written work is also required. Four credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

ESLP 126 Special Studies in Grammar for Communication I (3-4). U An individualized Internet course designed to help very advanced students review sentence- and discourse-level grammar and vocabulary to allow them to express meaning appropriately and very accurately in written English. Students participate in a wide variety of activities including e-mail dialogue journals, participation in on-line class discussions on the course Web site, Web research, and on-line pre-writing activities and quizzes. Students submit written texts and receive feedback and individualized grammar assignments as attachments to e-mail messages. Students also have several face-to-face conferences with their instructor. Four credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

ESLP 128 Special Studies in Reading and Writing (3-4). U A course designed to help very advanced students polish strategies for improving their academic reading and writing. There is continued emphasis on increasing fluency, building vocabulary, developing academic skills such as note-taking, paraphrasing, summarizing, and integrating ideas from several sources. As preparation for college-level academic course work, students preview university course material in a variety of academic areas. Four credits in the fall and spring semesters; three credits in the summer term. Prerequisite: Placement in this course by the Applied English Center. LEC

ESLP 136 Special Studies in Grammar for Communication II (2). U An individualized course designed to help very advanced students review sentence- and discourse-level grammar and vocabulary to allow them to express meaning appropriately and very accurately in written English. Students submit written texts and receive feedback and individualized grammar assignments at conferences with their instructor. Prerequisite: Placement in this course by the Applied English Center. LEC

ESLP 140 Topics in English for Specific Purposes: ____ (0.50-16). U Specialized English language and/or orientation courses for students in short-term programs at advanced levels, focused on the use of English in particular fields of study or employment. Prerequisite: Placement in this course by the Applied English Center. LEC

Independent Study

Assistant Dean: Jean Redeker, enroll@ku.edu
Continuing Education Bldg., 1515 St. Andrews Dr.
Lawrence, KS 66047-1625
(785) 864-5823, www.ContinuingEd.ku.edu

Students who are unable to enroll in campus sections of KU courses, have scheduling conflicts, or wish to expand their course options may take Independent Study courses for KU credit or on a noncredit basis. The Independent Study program accommodates students' other educational commitments, work schedules, or family and community responsibilities.

Independent Study is a statewide service, authorized by the Kansas Board of Regents. As part of KU Continuing Education, Independent Study offers more than 150 approved college courses similar to those taught in residence. Independent Study courses are available in online and media-supplemented versions.

Students considering enrolling in Independent Study courses should consult the chart, Regulations and Requirements for KU Undergraduate Enrollment in Independent Study Courses Offered Through Continuing Education, in the General Regulations chapter of this catalog regarding limits on the number of hours that may be taken through Independent Study.

For further information on Independent Study and its costs, visit Independent Study online at www.ContinuingEd.ku.edu, or request the catalog by calling (785) 864-5823, or contact Independent Study Student Services, Continuing Education Building, 1515 St. Andrews Drive, Lawrence, KS 66047-1625.

Independent Study Courses

All courses use KU departmental abbreviations. The number in parentheses indicates the credit hours for each course.

College of Liberal Arts and Sciences

AAAS 106 The Black Experience in the Americas (3)
 AAAS 510 Comparative Racial and Ethnic Relations (3)
 AAAS 690 Investigation and Conference: Langston Hughes (1)
 AAAS 690 Investigation and Conference: The Kansas Territorial Experience (1)
 ABSC 160 Introduction to Child Behavior and Development (3)
 ABSC 268 Introduction to Marriage and Family Relations (3)
 ABSC 342 Adult Development and Aging (3)
 ABSC 405 Children and Media (3)
 ABSC 626 Psychology of Adolescence (3)
 AMS 110 The American Peoples (3)
 AMS 330 American Society (3)
 AMS 522 American Racial and Ethnic Relations (3)
 ANTH 100 General Anthropology (3)
 ANTH 104 Fundamentals of Physical Anthropology (4)
 ANTH 108 Introduction to Cultural Anthropology (4)
 ANTH 293 Myth, Legend, and Folk Belief in East Asia (3)
 ANTH 304 Fundamentals of Physical Anthropology (4)
 ANTH 308 Introduction to Cultural Anthropology (4)
 ATMO 105 Introductory Meteorology (3 or 5)
 ATMO 220 Unusual Weather (3)
 BIOL 100 Principles of Biology (3)
 BIOL 246 Principles of Human Physiology (3)
 CLSX 148 Greek and Roman Mythology (3)
 CLSX 232 Word Power: Greek and Latin Elements in English (3)
 EALC 130 Myth, Legend, and Folk Belief in East Asia (3)
 EALC 520 Entrepreneurship in East Asia (3)
 EALC 747 Teaching About East Asia (2)
 ECON 104 Introductory Economics (4)
 ENGL 101 Composition (3)
 ENGL 102 Critical Reading and Writing (3)
 ENGL 203 Topics in Reading and Writing: Environmental Literature (3)
 ENGL 203 Topics in Reading and Writing: The Literature of Sports (3)
 ENGL 203 Topics in Reading and Writing: Plains Literature (3)
 ENGL 209 Introduction to Fiction (3)
 ENGL 210 Introduction to Poetry (3)
 ENGL 320 American Literature I (3)
 ENGL 322 American Literature II (3)
 ENGL 324 Contemporary Authors: Toni Morrison (3)
 ENGL 325 Recent Popular Literature (3)
 ENGL 332 Shakespeare (3)
 ENGL 351 Fiction Writing I (3)
 ENGL 359 Grammar and Usage for Composition (3)
 ENGL 362 Foundations of Technical Writing (3)
 ENGL 466 Literature for Children (3)
 ENGL 495 Directed Study: Willa Cather (1 or 2)
 ENGL 495 Directed Study: Ernest Hemingway (1 or 2)
 ENGL 495 Directed Study: Langston Hughes (1)
 ENGL 495 Directed Study: The Kansas Territorial Experience (1)
 ENGL 570 Topics in American Literature: Kansas Literature (3)
 EURS 580 Directed Study: Masterpieces of World Literature-Reading Nobel Prize Winners (1)
 EVRN 148 Principles of Environmental Studies (3)
 FREN 100 French for Reading Knowledge (3)
 GEOG 102 Principles of Human Geography (3)
 GEOG 104 Principles of Physical Geography (3)
 GEOG 148 Principles of Environmental Studies (3)
 GEOL 105 History of the Earth (3)
 HA 100 Introduction to Art History (3)
 HA 300 Introduction to Art History (3)
 HA 535 Impressionism (3)
 HIST 100 World History: An Introduction (3)
 HIST 128 History of the United States through the Civil War (3)
 HIST 129 History of the United States after the Civil War (3)
 HIST 340 The History of the Second World War (3)
 HIST 341 Hitler and Nazi Germany (3)
 HIST 565 Imperial Russia and the Soviet Union (3)
 HIST 619 History of the American Indian (3)
 HIST 620 History of Kansas (3)
 HIST 640 Entrepreneurship in East Asia (3)
 HIST 747 Teaching About East Asia (2)
 HWC 130 Myth, Legend, and Folk Belief in East Asia (3)
 HWC 204 Western Civilization I (3)
 HWC 205 Western Civilization II (3)
 LAA 100 Latin American Culture and Society (3)
 LAT 104 Elementary Latin (5)
 LAT 108 Latin Reading and Grammar (5)
 LAT 200 Vergil's *Aeneid* (3)
 MATH 002 Intermediate Mathematics (3&)

MATH 101 Algebra (3)
 MATH 103 Trigonometry (2)
 MATH 104 Precalculus Mathematics (5)
 MATH 105 Introduction to Topics in Mathematics (3)
 MATH 115 Calculus I (3)
 MATH 116 Calculus II (3)
 MATH 365 Elementary Statistics (3)
 PHIL 140 Introduction to Philosophy (3)
 PHIL 148 Reason and Argument (3)
 PHIL 160 Introduction to Ethics (3)
 POLS 110 Introduction to U.S. Politics (3)
 POLS 150 Introduction to Comparative Politics (3)
 POLS 170 Introduction to International Politics (3)
 POLS 330 Introduction to Public Administration (3)
 PSYC 102 Orientation Seminar in Psychology (1)
 PSYC 104 General Psychology (3)
 PSYC 300 Statistics in Psychological Research (3)
 PSYC 318 Cognitive Psychology (3)
 PSYC 333 Child Psychology (3)
 PSYC 360 Social Psychology (3)
 PSYC 370 Brain and Behavior (3)
 PSYC 566 Psychology and the Law (3)
 PSYC 626 Psychology of Adolescence (3)
 PSYC 642 The Psychology of Families (3)
 PUAD 330 Introduction to Public Administration (3)
 REL 107 Living Religions of the West (3)
 REL 124 Understanding the Bible (3)
 REL 130 Myth, Legend, and Folk Belief in East Asia (3)
 REL 320 History of Judaism in the West (3)
 REL 475 Loving Relationships (3)
 SOC 104 Elements of Sociology (3)
 SOC 110 The American Peoples (3)
 SOC 130 Comparative Societies (3)
 SOC 160 Social Problems and American Values (3)
 SOC 220 Sociology of Families (3)
 SOC 330 American Society (3)
 SOC 352 Sociology of Sex Roles (3)
 SOC 522 American Racial and Ethnic Relations (3)
 SOC 523 Sociology of Aging and the Life Course (3)
 SOC 534 Comparative Racial and Ethnic Relations (3)
 SPAN 100 Spanish Reading Course (3)
 SPAN 104 Elementary Spanish I (5)
 SPAN 108 Elementary Spanish II (5)
 SPLH 261 Survey of Communication Disorders (3)
 SPLH 566 Language Development (3)
 SPLH 764 Seminar in: Communication in Autism (3)
 TH&F 380 American Popular Culture of the 1960s (3)
 TH&F 382 History of the American Sound Film (3)
 TH&F 405 Children and Media (3)

School of Education

HSES 252 The Coaching of Basketball (2)
 HSES 260 Personal and Community Health (3)
 HSES 330 Principles of Nutrition and Health (3)
 HSES 482 Drugs in Society (3)
 HSES 489 Health and Human Sexuality (3)
 PRE 210 Career and Life Planning: Decision-making for College Students (3)
 PRE 305 Development and Learning of the Young Child (3)
 PRE 306 Development and Learning of the Adolescent (3)
 SPED 718 Instructional Planning for Children and Youth with Disabilities: If Parents Could Train Early Childhood-SPED Personnel, What Would They Teach Us? (1)
 SPED 725 Introduction to the Psychology and Education of Children and Youth with Disabilities (3)
 SPED 743 Methods: Functional Behavior Assessment, Positive Behavior Support, and Classroom Management (3)
 SPED 761 Foundations of Positive Behavioral Support (1)
 SPED 762 Functional Assessment Methods for Positive Behavioral Support (1)
 SPED 763 Development and Implementation of Positive Behavioral Support Plans (1)
 SPED 764 Intervention Strategies for Positive Behavioral Support: Part I (1)
 SPED 765 Intervention Strategies for Positive Behavioral Support: Part II (1)
 SPED 766 Redesigning Environmental Systems (1)
 SPED 767 Creating Positive Lifestyles through Positive Behavioral Support (1)
 T&L/C&T 430 Teaching Literature for Young Adults (3)
 T&L/C&T 448 Reading and Writing across the Curriculum (3)
 T&L/ELPS 450 Foundations of Education (3)
 T&L/C&T 740 Foundations of Curriculum and Instruction (3)
 T&L/ELPS 770 History and Philosophy of Education (3)
School of Engineering
 CE 625 Applied Probability and Statistics (3)

School of Fine Arts

MEMT 791 Music Education/Music Therapy Techniques:
Mainstreaming/Inclusion in Music Education (2 or 3)
MUSC 298 Introduction to Jazz (3)
VAE 530 Art and Design in Daily Life (3)

School of Social Welfare

SW 310 Managing Stress: Principles and Techniques for Coping,
Prevention, and Wellness (3)

KU Language Across the Curriculum

Hodgie Bricke, Office of International Programs
Strong Hall, 1450 Jayhawk Blvd., Room 300
Lawrence, KS 66045-7535
(785) 864-6161, www.international.ku.edu

KULAC is a pioneering program that seeks to equip students with real competency in foreign language through a curriculum of courses and discussion sections taught in foreign languages in fields like business, history, politics, and the environment. KULAC classes allow you to study subjects that meet your interests (and graduation requirements) while sharpening your foreign language skills, including the specialized vocabulary used in your career. Employers in government, business, education, engineering, and other areas are looking for graduates who combine a disciplinary specialty with foreign language proficiency and a knowledge of other cultures. KULAC makes it possible for you to develop these skills without slowing progress toward your degree.

KULAC courses are open to any student who has completed at least two years of college-level classes in the relevant language. Courses are taught in Spanish, French, German, Italian, and Russian. There are new offerings each semester. For information, including lists of courses, consult the Office of International Programs.

KU Study Abroad Programs

Office of Study Abroad, osa@ku.edu
Lippincott Hall, 1410 Jayhawk Blvd., Room 108
Lawrence KS 66045-7515
(785) 864-3742, fax: (785) 864-5040,
www.studyabroad.ku.edu

A national leader in providing low-cost, high-quality study abroad programs, the Office of Study Abroad administers more than 100 programs in about 50 countries. Programs vary from exchanges and individually arranged programs to group programs led by KU faculty members.

Exchange opportunities (semester and academic year) are available in Australia, Costa Rica, England, Finland, France, Germany, Hong Kong, Ireland, Japan, Korea, Scotland, Sweden, and Wales. Students also may choose to study at one of the 36 International Student Exchange Program sites.

University-affiliated programs (semester and academic year) with a broad range of course offerings are available in Argentina, Australia, England, France, Germany, Ireland, Italy, and Spain. Students may seek out other study abroad programs to meet specific geographic and academic needs.

KU faculty from a variety of disciplines offer courses overseas. Semester, summer, spring break, and winter break programs are available.

Faculty-led Semester Programs

Semester in Santiago de Compostela, Spain
Western Civilization in Italy and France

Faculty-led Summer Programs

Ancient Rome and the Bay of Naples
Anthropology in Costa Rica
Arabic Studies in Ifrane, Morocco
Architecture Institute in Emerging Technology in Europe
Architecture Institute in Italy and Spain
Architecture Institute in Paris, France
Architecture Institute in Siena, Italy; and Berlin, Germany
British Summer Institute in the Humanities
Design Institute in Brazil and Peru
Education in Carpi, Italy
European Business Studies in Paris, France
European Studies: Brussels, Belgium; and Paris, France
European Studies: Budapest, Hungary; and Vienna, Austria
Exploring Contemporary Japan
Health Care and Social Policies in Sweden and Finland
International Social Work: Costa Rica
Journalism in Mexico
Language Institute in Barcelona, Spain
Language Institute in Dubrovnik and Zagreb, Croatia
Language Institute in Eutin, Germany
Language Institute in Florence, Italy
Language Institute in Holzkirchen, Germany
Language Institute in Krakow, Poland
Language Institute in Lviv, Ukraine
Language Institute in Paris, France
Language Institute in Puebla, Mexico
Language Institute in St. Petersburg, Russia
Language Institute in Strasbourg, France
Language Institute in Vitória, Brazil
Legal History, Politics, and Culture in Cambridge, England
Legal Studies in Istanbul, Turkey
Legal Studies in Limerick, Ireland
Music Therapy in Australia
Professional Studies in Stuttgart, Germany
Shakespeare in Performance in Stratford, England
Theatre in Greece

Faculty-led Spring Break Programs

Business Studies in Clermont-Ferrand, France
Business Studies in Stuttgart, Germany
Religious Studies in Istanbul, Turkey
The London Review

Faculty-led Winter Break Programs

Marine Biology in Bonaire, Dutch Antilles
Theatre and the Arts in Prague, Czech Republic

Reserve Officers Training Corps

The University of Kansas is one of only 37 U.S. universities with a full offering of Army, Air Force, and Naval ROTC programs. These programs are integrated into the mainstream of campus activities. All three ROTC programs offer scholarships that pay tuition and fees, furnish books and uniforms, and provide a monthly living allowance.

Students in ROTC pursue regular courses toward a degree and augment their studies with courses from the Departments of Military Science,

For current KULAC course offerings, write or call the Office of International Programs, 300 Strong Hall, (785) 864-6161.

See the *Timetable of Classes* for current KU study abroad programs, www.timetable.ku.edu.

Students receive grades and earn resident KU credit while studying abroad. Many also receive financial aid.

Aerospace Studies, or Naval Science. These courses may be crosslisted with a professional school or reviewed on an individual basis by the Assembly of the College of Liberal Arts and Sciences for accreditation toward degree requirements.

On successful completion of requirements and graduation from KU, Army or Air Force ROTC cadets are commissioned as Army or Air Force Second Lieutenants, and Naval ROTC Midshipmen are commissioned either as Ensigns in the Navy or as Second Lieutenants in the Marine Corps.

Military Studies

Army

Department of Military Science

Chair: Lieutenant Colonel Jeff Maxcy
Military Science Bldg.

1520 Summerfield Hall Dr., Room 203
Lawrence, KS 66045-7605

(785) 864-3311, www.ku.edu/~kuarotc

The Department of Military Science administers the Army Reserve Officers Training Corps program at KU. The military science curriculum provides a student with unique leadership and management training, along with practical experience. It develops qualities basic to success in the Army and in the civilian sector. It also offers the student the opportunity to earn an officer's commission in the Army.

Eligible students enrolled at KU may register for a 100- or 200-level military science course or for ARMY 303 or ARMY 450. These students receive credit if the course they are enrolled in has been approved for degree credit in the College of Liberal Arts and Sciences. The credit counts toward the limit of 25 hours accepted from other schools and divisions.

Students who want to receive a commission in the Army through the ROTC program must meet the eligibility requirements of Section 2103, Title 10, U.S. Code, and current Department of Defense and Department of the Army guidelines.

Four-year Program. The four-year Army ROTC program is made up of a basic course and an advanced course.

Basic Course: The basic course is taken during the first two years of college. It covers subjects such as organizational behavior, leadership, management, ethics, writing, public speaking, military affairs, and tactics. All necessary textbooks, classroom materials, uniforms, and other equipment are furnished at no cost. Students who have completed the basic course, have met academic, physical, and medical standards, and have the potential to serve as officers may enter the advanced course.

A total of four courses make up the basic course. A student may enter the basic course at one of three points (if eligible).

1. First-semester First-year Students (4 hours)	
First semester: ARMY 101	1
Second semester: ARMY 102	1
Third semester: ARMY 201	1
Fourth semester: ARMY 202	1
2. Second-semester First-year Students (3 hours)	
First semester: ARMY 102	1
Second semester: ARMY 201	1
Third semester: ARMY 202	1

3. First-semester Sophomores

First semester: ARMY 201	1
Second semester: ARMY 202	1

Advanced Course: The advanced course normally is taken during the final two years of college. It offers instruction in military organization, tactics, military law, Army administration, and leadership. All necessary books, classroom supplies, uniforms, and other equipment are issued to students at no cost. During the summer between the junior and senior years of college, students must attend the Leadership Development and Assessment Camp, a fully paid, five-week training and evaluation course. LDAC gives each student the chance to practice for an extended period of time what they have learned in the classroom. All students contracted in the advanced course receive stipends from the government of up to \$5,000 per year.

A total of four courses makes up the advanced course program.

First Year (6 hours)	
First-semester: ARMY 301	3
Second-semester: ARMY 302	3
Second Year (6 hours)	
First-semester: ARMY 401	3
Second-semester: ARMY 402	3

Two-year Program. Students can receive credit for the basic course in three alternate ways other than taking the four courses associated with the basic course. Students who complete the basic course by one of these alternate means can enroll in basic course classes but cannot enroll in the advanced course until they are academic juniors. Any upper-level student, junior through graduate, may earn a commission through the two-year program. The three alternate ways to receive basic course credit are

1. Successfully complete the basic enlisted training offered by any of the armed services.
2. Successfully complete the ROTC Leadership Training Course held each summer.
3. Successfully complete at least three years of high school Junior ROTC.

Professional Military Education Course. The following course is required for commissioning:

Military History. Gain an understanding of the evolution of warfare, military theory, the military profession, and the place of military institutions in American society. The requirement can be met by successfully completing a history course focusing on either a major war or on military history in general. ROTC courses also meet this requirement.

Scholarships and Financial Assistance. Army ROTC offers two-, three-, and four-year scholarships to qualified students. Scholarships are awarded on a competitive basis to students with outstanding academic and leadership abilities. These scholarships pay for all tuition, required fees, \$900 per year for books and other supplies, and a stipend of up to \$5,000 per year. Special consideration is given to students who major in nursing, engineering, or the sciences. The Kansas Army National Guard offers full tuition waivers to qualified students enrolled in ROTC who wish to serve in the Kansas Army National Guard after graduation.

Army National Guard and Army Reserve Students. Students who are members of the Army National Guard or the Army Reserve may enroll in Army ROTC classes and be members of their units at the same time. Once students enroll in the advanced course, they can remain members of their units under the Simultaneous Membership Program. These students still receive all military benefits such as GI Bill and drill pay.

● Army Courses

ARMY 010 Leadership Laboratory (0). U Required for all partnership school cadets. A study of Army customs and courtesies, drill and ceremonies, career opportunities in the Army, and life and work of an Army junior officer. Cadets develop leadership potential through practical supervised training. Course not approved for degree credit in the College of Liberal Arts and Sciences. Course is graded satisfactory/unsatisfactory. LAB

ARMY 101 Introduction to Military Science I (1). U Required introductory course for first-semester students. One hour of lecture and one hour of laboratory per week. Introduces the military science program as an element of the reserve forces and includes an examination of major legislation, the Army organization structure, and military leadership techniques. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1975. Such courses count within the limit of 25 hours accepted from other schools and divisions. LAB

ARMY 102 Introduction to Military Science II (1). U Second semester freshmen. One hour lecture and one hour leadership laboratory per week. A general study and appreciation of the American military system from colonial times to the present. The course identifies factors present in the American society and national policy in each particular historical period which influenced the development of the American peculiar military systems. The relationship between the military establishment and the larger American society is examined in each historical period. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1975. Such courses count within the limit of 25 hours accepted from other schools and divisions. Prerequisite: Successful completion of ARMY 101. LEC

ARMY 201 Basic Military Science I (1). U One hour of lecture and one hour of laboratory per week. Analyzes the principles of war and military leadership at small unit level, and introduces principles of military writing. Approved for degree credit in the College of Liberal Arts and Sciences. Such courses count within the limit of 25 hours accepted from other schools and divisions. Prerequisite: First semester sophomore status and successful completion of ARMY 102. LAB

ARMY 202 Basic Military Science II (1). U Second semester sophomore. One hour of lecture and one hour of leadership laboratory per week. The fundamentals of topographic map reading and their application in a field environment. Includes instruction in various types of maps, marginal information, topographic symbols and colors, scale, distance, direction and use of the magnetic compass. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1975. Such courses count within the limit of 25 hours accepted from other schools and divisions. Prerequisite: Successful completion of ARMY 201. LAB

ARMY 301 Theory and Dynamics of Tactical Operations I (3). U Three hours of lecture and two hours of laboratory per week. A comprehensive study of conventional tactical operations. Emphasizes the fundamentals of land warfare and the qualities necessary to conduct fluid, non-linear operations. Introduces the student to the tenets of Air-Land Battle, the underlying structure of modern warfare, the dynamics of combat power, and the application of classical principles of war to contemporary battlefield requirements. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1989. Such courses count within the limit of 25 hours accepted from other schools and divisions. Prerequisite: ARMY 202 or consent of instructor. LEC

ARMY 302 Theory and Dynamics of Tactical Operations II (3). U Three hours of lecture and two hours of laboratory per week. Expands on the application of conventional tactical operations in the low, medium, and high intensity conflict spectrum. Examines the three-dimensional nature of modern warfare and the unified battlefield. Approved for degree credit in the College of Liberal Arts and Sciences, effective fall 1989. Such courses count within the limit of 25 hours accepted from other schools and divisions. Prerequisite: ARMY 301 or consent of instructor. LEC

ARMY 303 Military Conditioning (1). U Introduction to the theoretical and practical aspects of developing physical fitness programs for all Army personnel from the commander or supervisor's perspective. Provides an overview of total fitness, defines physical fitness, outlines the phases of fitness, discusses various types of fitness programs, and presents evaluation criteria. Approved for degree credit in the College of Liberal Arts and Sciences, to count within the limit of 25 hours accepted from other schools and divisions. LEC

ARMY 401 Concepts of Military Management (3). U Introduction to the military management system with special attention to the functions, organizations, and operations of military training, logistics and administration. The use of standardized staff formats in the development of plans and orders is emphasized from the standpoint of the leader with limited resources. Extensive use of standard staff procedures is emphasized in problem solving scenarios. Approved for degree credit in the College of Liberal Arts and Sciences. Such courses count within the limit of 25 hours accepted from other schools and divisions. Prerequisite: Permission of department chair. LEC

ARMY 402 The Military Profession (3). U Three hours of lecture and two hours of laboratory per week. A seminar on the military pro-

fession as an object of social inquiry. Focus is on the internal structure of the profession, current problems, and interaction with the larger American society. Seminar topics include but are not limited to the following: a historical perspective on the military profession; civil-military relations; social and political impact of military activities; military justice; professionalism versus careerism. Approved for degree credit in the College of Liberal Arts and Sciences effective spring 1978. Such courses count within the limit of 25 hours accepted from other schools and divisions. Prerequisite: Student must be in his or her last semester of ROTC. LEC

ARMY 450 Military Analysis (1). U A study of present and future military operations; emphasis placed on analysis of problem. The student will defend his/her analysis through written and oral presentations. Prerequisite: Permission of department chair. LEC

Air Force

Department of Aerospace Studies

Chair: Lieutenant Colonel Sandra S. Leiker

Detachment 280, Military Science Bldg.

1520 Summerfield Hall Dr., Room 109

Lawrence, KS 66045-7605

(785) 864-4676, www.ku.edu/~afrotc

The Air Force Reserve Officer Training Corps program provides intelligent, energetic, and dedicated men and women for service as second lieutenants in the United States Air Force. To accomplish this, the Air Force, with approval of KU, has established a curriculum that allows commissioning in three- to four-year programs.

Four-year Program. The four-year program is divided into the General Military Course and the Professional Officer Course. The four-year option most often benefits high school seniors who are awarded four-year scholarships. However, many first-year students enroll as college walk-ons to see if AFROTC is an appropriate choice for their education and career. All funding supports tuition and fees, along with a nontaxable subsistence allowance. Some funding provides \$600 per year for books.

The General Military Course (GMC, Foundations of the USAF, Airpower History) is offered during the first two years of college and constitutes an introduction to the present-day Air Force. The emphasis is on the role of military forces in world affairs, customs and courtesies, officership, professionalism, the mission and organization of the Air Force, and the history of air power. If the cadet scores satisfactorily on the Air Force Officer Qualifying Test, is medically and academically qualified, and successfully completes four weeks of Field Training, he or she may enter the POC during the junior and senior years. Graduate students who join AFROTC take the POC.

The Professional Officer Course teaches the cadet leadership and management, organizational patterns, technologies, military policies and procedures, and provides an in-depth study of national security affairs. The cadet also learns and practices communication, leadership, and management skills. The POC cadet receives a nontaxable subsistence allowance.

Subsistence Allowance for Contracted Cadets

as of	First-year	Sophomore	Junior	Senior
Oct. 1, 2005	\$250	\$300	\$350	\$400

All texts and uniforms for ROTC are provided free of charge.

Program Options. AFROTC offers a variety of programs leading to commissioning. Interested college students can enter the program as first-year, sophomore, or graduate students. Some programs may not

ROTC credit that may be applied toward a KU degree varies. See program descriptions.

Consult with department offices for complete current course listings.

"With solid academics, outstanding extracurricular programs, winning athletics, and a stellar social life, the University of Kansas is one of higher education's best buys."
—2006 Fiske Guide to Colleges

be available every year. Contact the AFROTC Detachments Unit Admission Office to learn what programs are available.

Air Force Career Fields. Cadets commissioned from AFROTC are called to active duty in such diverse career fields as pilot, navigator, missile, aircraft maintenance, personnel, air traffic control, finance, engineering, contracting, weather, and public affairs. Opportunities are limited only by initiative, abilities, and desires.

Field Training. AFROTC field training generally is held during the summer following the cadet's second year in the program. Field training is mandatory for cadets who wish to enter the POC program. Depending on how long cadets have participated in the program, they spend four to five weeks at FT. Each cadet receives transportation to and from field training and pay for the camp. The major areas of study are junior officer training, career orientation, survival training, base functions, team building, and physical training. Longer FT programs cover information from Foundations of the USAF and Airpower History.

Leadership Laboratory. The Leadership Laboratory is a noncredit, two-hour, once-a-week course taken every semester throughout the cadet's enrollment in AFROTC. Instruction is conducted in the framework of an organized cadet corps with a progression of experiences that develop each student's leadership potential. Such things as proper wear of the uniform, military rank, and military drill and ceremony are also included in LLab.

Scholarships. Interested high school seniors may apply for Air Force ROTC guaranteed scholarships covering the four-year college period. Some technical majors, such as engineering, are regularly approved for five-year scholarship support. Students should apply no later than December 1 of the senior year of high school. Online applications are available at www.afrotc.com, beginning about July of the senior year. Two- and three-year scholarships are available to qualified college students. These are awarded competitively. Scholarships generally cover full tuition, laboratory and incidental fees, \$600 per year for books, and the nontaxable subsistence allowance.

Service Commitment. Upon commissioning (shortly after graduation), the Air Force service commitment for most cadets is four years of active duty. After completing the initial training, the commitment is 10 years for cadets who become pilots and six years for cadets who become navigators or air battle managers.

Further information can be obtained from the AFROTC Detachment 280 office by phone at (785) 864-4676, by e-mail at afrotc@ku.edu, or online at www.ku.edu/~afrotc.

● Aerospace Studies Courses

AIR 100 Leadership Laboratory (0). U The AS 100 and AS 200 Leadership Laboratory courses (LLABs) include a study of Air Force customs and courtesies, drill and ceremonies, and military commands. The LLAB also includes studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. The AS 300 and AS 400 LLABs consist of activities classified as leadership and management experiences. They involve the planning and controlling of military activities of the cadet corps and the preparation and presentation of briefings and other oral and written communications. LLABs also include interviews, guidance, and information which will increase the understanding, motivation, and performance of other cadets. LAB

AIR 144 Foundations of the USAF (1). U Survey course designed to introduce students to the United States Air Force and Air Force Re-

serve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. LEC

AIR 148 Foundations of the USAF (1). U Survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. LEC

AIR 284 Airpower History (1). U A course designed to examine general aspects of air and space power through an historical perspective ranging from the first balloons and dirigibles to the space-age global positioning systems and Balkan War. Leaders, pivotal situations in peace and war, successes and failures are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) in shaping today's USAF air and space power. In addition, the students will continue to discuss the importance of the Air Force Core Values with the use of operational examples and historical Air Force leaders and will continue to develop their communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. LEC

AIR 288 Airpower History (1). U A course designed to examine general aspects of air and space power through an historical perspective ranging from the first balloons and dirigibles to the space-age global positioning systems and Balkan War. Leaders, pivotal situations in peace and war, successes and failures are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) in shaping today's USAF air and space power. In addition, the students will continue to discuss the importance of the Air Force Core Values with the use of operational examples and historical Air Force leaders and will continue to develop their communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. LEC

AIR 344 Leadership Studies (3). U A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course. LEC

AIR 348 Leadership Studies (3). U A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course. LEC

AIR 404 National Security Affairs (3). U Course examines the national security process (from a military standpoint) from its birth with the Founding Fathers and the US Constitution to the joint warfighting scenarios of today. It looks at the Constitutionally established roles of the legislative and executive branches of government in dealing with the defense issues in peacetime or when the nation is at war. It examines the current command and control structure within the Department of Defense and lays out the global responsibilities of the military, and specifically the US Air Force. This course also examines the development of National Security policy and the interrelationship between the Air Force, sister services and the Air Reserve component. Additionally, multiple classroom hours on formal military communications skills (writing and briefing) are included. The course culminates with a look at current political trends and U.S. defense policy decisions in some of the world's major geographical areas. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences giving students the opportunity to apply leadership principles in a dynamic setting. LEC

AIR 408 National Security Affairs (3). U Course examines U.S. National Security Policy as it relates to major geographical regions and political issues across the world. It also covers multiple legal, social and policy structures/procedures that AF officers and commanders face day-to-day. In addition, AF communications techniques, formal writing and speaking, are covered in detail. The latter part of the course addresses situations that new officers will encounter in their first few assignments. LEC

Navy**Department of Naval Science**

Chair: Commander Christopher D. Orwoll
 Military Science Bldg.
 1520 Summerfield Hall Dr., Room 115
 Lawrence, KS 66045-7605
 (785) 864-3161, www.ku.edu/~kunrotc

Courses in naval science include both practical and theoretical instruction in subjects pertaining to the Navy and the Marine Corps.

The Navy-option student receives 23 credit hours of naval science instruction over a period of four years. The Marine-option student receives 17 credit hours of instruction. Additionally, there is a 1-credit-hour naval science laboratory meeting every semester for the four years. Laboratory sessions integrate and apply knowledge gained from naval science courses through practical application during tactical planning exercises, leadership training, and professional development. They also include classroom instruction on issues relating to naval careers and policies and some close-order drill.

Admission. Male and female citizens of the United States who are 17 years old on or before September 1 of the year of initial enrollment may apply. **Scholarship** applicants must not have reached age 27 on June 30 of the year in which they will be commissioned. **College Program** students must not have reached age 27 1/2 on June 30 of the year in which they will be commissioned. Age waivers may be available to students with active duty military backgrounds. Please contact the NROTC office for details. All students must be physically qualified for the NROTC program and must enter into an agreement with the Secretary of the Navy to accept a commission, if offered, in the Navy or Marine Corps upon successful completion of work toward their first bachelor's degree.

Four-year Scholarship NROTC Students. Students may apply for scholarships in the fall preceding the year in which the scholarship is desired (January 1 deadline). Selection is based on high school grades, SAT/ACT test results, and aptitude for naval service. If selected, students are appointed midshipmen and granted compensation and benefits specified by law. These benefits include tuition, required fees, laboratory equipment, a \$600-per-year book stipend, and subsistence pay of \$250 per month for first-year students. Subsistence pay increases to \$300 per month for sophomores, \$350 for juniors, and \$400 for seniors. Scholarship students participate in three required summer training cruises. Scholarship students assume an obligation to serve at least four years on active duty after commissioning as Ensign, U.S. Naval Reserve, or Second Lieutenant, U.S. Marine Corps Reserve.

Four-year College Program NROTC Students. These NROTC students have the status of civilians who have entered into an agreement with the Navy. They are not entitled to all the benefits and compensation given to scholarship NROTC students but are entitled to uniform issue. A subsistence allowance of \$350 per month for juniors and \$400 for seniors is paid in the final two years of training. These students participate in one summer cruise between their junior and se-

nior years. College program students agree to accept commissions in the Naval or Marine Corps Reserve and serve a minimum of three years on active duty. Upon proven superior performance in the college program, students may be offered three- or two-year scholarships with the same requirements and benefits as four-year scholarship students.

Two-year Programs. Entrance into the two-year scholarship or college programs is offered to qualified students with two years remaining to complete their undergraduate degrees. Students applying for the two-year scholarship must have completed one year of differential and integral calculus of one real variable (MATH 115 and MATH 116, or MATH 121 and MATH 122) and must have attained a minimum grade of C. Students who are accepted into either program must complete a paid six-week summer course at the Naval Science Institute in Newport, Rhode Island. Upon successful completion of NSI, students have the same program benefits and requirements as students in the four-year scholarship or college programs. Applications for the two-year programs must be completed by March 1 of the year of attendance at NSI.

Nursing Program. Students may apply for two-, three-, or four-year nursing scholarships with the same benefits and deadlines as those listed above for regular scholarship programs. Upon successful completion of the B.S.N., the student is commissioned as an Ensign in the U.S. Navy Nurse Corps.

Naval Science Students. Any student enrolled at KU may enroll in a naval science course for KU credit. Such students are not considered to be in the NROTC program and are not entitled to receive any compensation, benefits, or a commission.

Four-year Program Requirements. Both Navy- and Marine-option students must take professional Navy- and/or Marine-option courses as part of the NROTC program. The normal sequence of courses is

Navy Four-year Scholarship Students	
NAVY 101 Introduction to Naval Science	2
NAVY 220 Seapower and Maritime Affairs	3
NAVY 401 Principles of Naval Organization and Management (Leadership and Management I)	3
NAVY 180 Introduction to Naval Ships Systems I (Engineering) ..	3
NAVY 300 Navigation and Operations I	3
NAVY 304 Navigation and Operations II	3
NAVY 184 Introduction to Naval Ships Systems II (Weapons) ...	3
NAVY 402 Seminar in Military Leadership and Management (Leadership and Management II)	3
Marine Four-year Scholarship Students	
NAVY 101 Introduction to Naval Science	2
NAVY 220 Seapower and Maritime Affairs	3
NAVY 401 Principles of Naval Organization and Management (Leadership and Management I)	3
MCOR 380 Evolution of Warfare	3
MCOR 384 Amphibious Warfare	3
NAVY 402 Seminar in Military Leadership and Management (Leadership and Management II)	3

The above courses are approved by the College of Liberal Arts and Sciences and count within the limit of 25 hours accepted from other schools and divisions toward graduation requirements.

Navy scholarship students must take the following courses in the College of Liberal Arts and Sciences:

Mathematics and Physics	
MATH 121 Calculus I (5) and MATH 122 Calculus II (5)	10
PHSX 211 and PHSX 212 General Physics I and II	8
(MATH 122 is a prerequisite for PHSX 212.)	

A Placement Table for Initial Enrollment in Mathematics appears on page 59 of this catalog.

Nursing programs in ROTC are available to students accepted into the KU School of Nursing.

The Timetable of Classes is online at www.timetable.ku.edu.

KU students can access course information through [Enroll & Pay, https://sa.ku.edu](https://sa.ku.edu).

Plus courses in the following areas:

American history, military affairs, or national security policy	3
English	6
Computer science	3

Navy-option college program students must complete one year (6 semester credit hours) of college-level study in both mathematics and physical science as a prerequisite for commissioning. Mathematics courses must be at the level of college algebra or higher and must be completed by the end of the junior year. The physical science requirement can be completed by a one-year sequence, or two courses, in an area of physical science, and must be completed by the end of the senior year. Additionally, college program students must complete 6 semester credit hours of English and 3 credit hours of computer science.

Marine Corps Option. Marine-option students are not required to take MATH 121, MATH 122, PHSX 211, or PHSX 212, but are encouraged to do so. During the junior and senior years, Marine-option students take MCOR 380, MCOR 384, and two relevant courses taught by civilian faculty and approved by the marine officer instructor in lieu of NAVY 300 and NAVY 304.

● **Marine Corps Courses**

MCOR 380 Evolution of Warfare (3). U A study of the art, science, concepts, and evolution of warfare as one instrument of political action throughout history. The study of selected battles and campaigns serves as a vehicle to emphasize the application of the classical principles of warfare, the influence of leadership, and the advancement of technology of the art and science of war. This course is substituted for NAVY 300 by NROTC students selected for Marine Corps training. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1975. Such courses count within the limit of twenty-five hours accepted from other schools and divisions. LEC

MCOR 384 Amphibious Warfare (3). U An historical survey and analysis of the concept, doctrinal origins, evolution, and strategic role of the amphibious projection of seapower ashore from antiquity and into the 20th century. The student studies and critiques historically significant amphibious campaigns. The student then evaluates the current and future need of an amphibious capability within the U.S. defense community. Approved for degree credit in the College of Liberal Arts and Sciences effective Fall 1976. Such courses count within the limit of 25 hours accepted from other schools and divisions. LEC

● **Naval Science Courses**

NAVY 100 Naval Science Laboratory (1). U Designed for and required annually of all NROTC midshipmen, to provide increased knowledge in the areas of warfare techniques, history, operations, and operational decision making. Applies knowledge learned from other accredited naval science courses. Highly educated, well known, professional guest lecturers appear frequently and make presentations on topics which apply to naval science courses, increase the educational awareness of future Navy and Marine Corps officers, and further develop the leadership and decision making of the officer candidates. Some close order drill and lectures on standard naval topics. Approved for credit in the College of Liberal Arts and Sciences effective fall 1975. Such courses count within the limit of 25 hours accepted from other schools and divisions. LAB

NAVY 101 Introduction to Naval Science (2). U An introduction to the Department of the Navy (U.S. Navy and U.S. Marine Corps) emphasizing its mission, organization, operation, and relationship to other U.S. federal and military institutions. Through historical overview, the development of the current Department of the Navy mission, organization and operation, both at sea and ashore, including customs, traditions, regulations, and professional/technical vocabulary is examined. Educational opportunities and specializations for naval officers are also detailed. Approved for degree credit in the College of Liberal Arts and Sciences effective spring 1982. Such courses count within the limit of 25 hours accepted from other schools and divisions. LEC

NAVY 180 Introduction to Naval Ships Systems I (3). U A course designed to familiarize students with the types, structures, and purpose of naval ships. Ship compartmentation, propulsion systems, auxiliary power systems, electrical systems, interior communications, and control are included. Elements of ship design to achieve safe operations, damage control, and ship stability characteristics are examined. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1971. Such courses count within the limit of 25 hours accepted from other schools and divisions. (Same as ENGR 180.) LEC

NAVY 184 Introduction to Naval Ships Systems II (3). U The concept of weapons systems and the systems approach are explored. The techniques of linear analysis of ballistics and weapons are introduced. The dynamics of the basic components of weapons control systems are investigated and stated as transfer functions. This course provides the tools for the future development in the student's understanding of the basic principles that underlie all modern naval weapons systems. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1971. Such courses count within the limit of 25 hours accepted from other schools and divisions. (Same as ENGR 184.) Prerequisite: MATH 002. LEC

NAVY 220 Seapower and Maritime Affairs (3). U A survey of United States naval history from the American Revolution to the present with emphasis on major developments. Included is an in-depth discussion of the geopolitical theory of Mahan. The course also treats present day concerns in seapower and maritime affairs including the economic and political issues of merchant marine commerce, the law of the sea, the Global War on terror, and a comparison of United States and foreign naval strategies. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1975. Such courses count within the limit of 25 hours accepted from other schools and divisions. LEC

NAVY 300 Navigation and Operations I (3). U A comprehensive study of the theory, principles, and procedures of ship navigation in coastal and open ocean environment. Includes piloting, triangulation, ocean and tidal currents, International and U.S. inland rules of the road for navigation, sight reduction, publications, and logs; an introduction to electronic navigation, including theory of wave propagation, hyperbolic and azimuthal systems, doppler, inertial, and satellite systems. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1971. Such courses count within the limit of 25 hours accepted from other schools and divisions. (Same as ENGR 301.) LEC

NAVY 304 Navigation and Operations II (3). U A study of the laws for the prevention of collisions at sea; tactical formations and dispositions, relative motion, and the maneuvering board. A portion of the semester is devoted to an analysis of naval operations utilizing formal decision making theory, particularly as applied to command and control. Numerous case studies are used to examine the application of the above topics. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1971. Such courses count within the limit of 25 hours accepted from other schools and divisions. (Same as ENGR 305.) Prerequisite: MATH 111 or higher. LEC

NAVY 401 Principles of Naval Organization and Management (3). U An introduction of management functions as they apply to routine daily military activities. The concepts of planning, organizing, staffing, directing, controlling, and coordinating are introduced and examined using lecture, seminar, and case study methods. The course includes discussions on responsibility and accountability, power and influence, managerial theories, decision making, personnel appraisal, organizational structure, and communications. Emphasis is placed on management of personnel and physical resources. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1975. Such courses count within the limit of 25 hours accepted from other schools and divisions. LEC

NAVY 402 Seminar in Military Leadership and Management (3). U A study of military leadership and management which investigates techniques and concepts of task accomplishment in the absence of a normative business environment. The course includes an examination of military law, ethical leadership, personal responsibility, authority, and bureaucracy. The focus of discussion is on those aspects of leadership and management not normally present in civilian enterprise such as operating in the presence of hostility and morale management. Approved for degree credit in the College of Liberal Arts and Sciences effective fall 1975. Such courses count within the limit of 25 hours accepted from other schools and divisions. LEC

Faculty

College of Liberal Arts and Sciences

Administration

Joseph Steinmetz, Ph.D., Dean
 Paul D'Anieri, Ph.D., Associate Dean
 Barbara Romzek, Ph.D., Associate Dean
 Robert F. Weaver, Ph.D., Associate Dean
 Kim McNeley, Ph.D., Assistant Dean
 Erin Spiridigliozzi, Ph.D., Assistant Dean

Faculty

Glenn E. Adams. Assistant Professor of Psychology: Ph.D., Stanford, 2000. Culture & psychology, prejudice, & discrimination.

Omololabo Ajayi-Soyinka. Associate Professor of Women's Studies & of Theatre & Film: Ph.D., Univ. of Ife, 1987. African/African-American theatre, poststructuralism/neocolonialism.

Sandra Albrecht. Associate Professor of Sociology: Ph.D., Texas, 1979. Gender, work, & organizations.

David Alexander. Assistant Professor of Ecology & Evolutionary Biology: Ph.D., Duke, 1982. Locomotion biomechanics.

Helen Alexander. Professor of Ecology & Evolutionary Biology: Ph.D., Duke, 1982. Plant population biology & plant/fungal interactions.

Raymond G. Ammar. Professor of Physics & Astronomy: Ph.D., Chicago, 1959. Experimental physics & elementary particle physics.

Giselle L. Anatol. Esther Conger Gabel & M. Wren Gabel Teaching Associate Professor of English: Ph.D., Pennsylvania, 1998. African-American & Caribbean literature.

Barbara J. Anthony-Twarog. Professor of Physics & Astronomy: Ph.D., Yale, 1981.

Crystal Anderson. Assistant Professor of American Studies: Ph.D., William & Mary. Comparative Afro-Asian/American studies focusing on literature & visual culture, alternative modernisms & post-soul aesthetic.

Danny Anderson. Professor of Spanish & Portuguese: Ph.D., Kansas, 1985. 20th-century Spanish-American fiction & literary theory.

Robert E. Anderson. Associate Professor of French & Italian: Ph.D., Wisconsin, 1973. 17th- & 18th-century French theatre (on leave).

Barbara J. Anthony-Twarog. Professor of Physics & Astronomy: Ph.D., Yale, 1981. Stellar & galactic astronomy.

Robert J. Antonio. Chancellors Club Teaching Professor of Sociology: Ph.D., Notre Dame, 1972. Theory, economy, & society.

James Steven Ashe. Professor of Ecology & Evolutionary Biology: Ph.D., Univ. of Alberta, 1982. Systematic entomology. Sharon Ashworth. Lecturer in Environmental Studies: Ph.D., Kansas, 2003. Wetland ecology, restoration ecology, & plant community ecology.

Elizabeth Asiedu. Associate Professor of Economics: Ph.D., Illinois, 1998. Development issues, particularly Africa: international economics, issues regarding foreign investment.

Nobleza Asuncion-Lande. Professor of Communication Studies: Ph.D., Michigan State, 1960. Social linguistics, intercultural communication & interpersonal communication.

Paul Atchley. Associate Professor of Psychology: Ph.D., California (Riverside), 1996. Visual perception & aging.

Ruth Atchley. Associate Professor of Psychology: Ph.D., California (Riverside), 1997. Psycho-physiologist studying language comprehension.

G. Douglas Atkins. Professor of English: Ph.D., Virginia, 1969. Restoration & 18th-century literature, criticism & theory, contemporary nonfiction, & nonfiction writing.

Edward T. Auer Jr. Assistant Professor of Speech-Language-Hearing: Sciences & Disorders: Ph.D., SUNY (Buffalo) 1992. Human learning & memory, cognitive neuroscience, psycholinguistics, spoken word recognition, speech perception, sensation & perception.

Yoshiaki Azuma. Assistant Professor of Molecular Biosciences: Ph.D., Kyushu University School of Medicine, 1997. Posttranslational modification by SUMO in respect to cell cycle regulation

Victor Bailey. Professor of History: Ph.D., Univ. of Warwick, 1975. Modern British social, economic, & legal history.

Cassandra Banks. Audiologist, Clinical Faculty, Speech-Language-Hearing: Sciences & Disorders: M.A., Northern Iowa, 1983. Amplification systems & aural rehabilitation.

Philip Baringer. Professor, Associate Chair, & Director of Undergraduate Studies of Physics & Astronomy: Ph.D., Indiana, 1985. Experimental physics & elementary particle physics.

Steven M. Barlow. Professor of Speech-Language-Hearing: Sciences & Disorders: Ph.D., Wisconsin, 1984. Neuroplasticity, sensorimotor control systems.

Philip Barnard. Associate Professor of English: Ph.D., SUNY (Buffalo), 1987. American literature, comparative literature & cultural studies.

William Barnett. Charles W. Oswald Distinguished Professor of Macroeconomics: Ph.D., Carnegie Mellon, 1974. Macroeconomics.

Frank Baron. Professor of Germanic Languages & Literatures: Ph.D., California (Berkeley), 1966. Literature of humanism & of the 20th century.

Mikhail V. Barybin. Assistant Professor of Chemistry: Ph.D., Minnesota, 1999. Inorganic/Organometallic.

Michael Baskett. Assistant Professor of Theatre & Film: Ph.D., California (Los Angeles), 2000. Japanese Film.

C. Daniel Batson. Professor of Psychology: Ph.D., Princeton, 1972. Social perception, ethical & religious thinking & behavior.

Zamir Bavel. Professor of Information Processing Studies: Ph.D., Illinois, 1965. Autonomy theory, formal languages, computers & music.

Lorraine Bayard de Volo. Associate Professor of Political Science & of Women's Studies: Ph.D., Michigan, 1996. Gender & politics, Latin American politics, social movements, theories of hegemony & power, feminist theory, women/gender & war.

Margaret Bayer. Professor of Mathematics: Ph.D., Cornell, 1983. Combinatorics & discrete geometry.

Robert Bayliss Jr. Assistant Professor of Spanish & Portuguese: Ph.D., Indiana, 2003. Golden age literature.

Nancy Baym. Associate Professor of Communication Studies: Ph.D., Illinois, 1994. Communication on the Internet, interpersonal communication, & qualitative research methods.

Alice Bean. Professor of Physics & Astronomy: Ph.D., Carnegie-Mellon, 1987. Experimental physics & elementary particle physics.

Neal Becker. Assistant Professor of Economics & Dir. of Undergraduate Studies: Ph.D., Univ. of Pittsburgh, 1991. International economics & game theory.

Thomas D. Beisecker. Associate Professor of Communication Studies: Ph.D., Wisconsin, 1968. Interpersonal influence & research methods.

Stephen Benedict. Associate Professor of Molecular Biosciences & Chair of Genetics, Ph.D., Vanderbilt, 1978. T-cell activation & immune therapies.

Leslie Bennett. Assistant Professor of Theatre & Film, M.F.A., Boston University of Arts, 2001. Stage combat.

David Benson. Associate Professor of Chemistry: Ph.D., California (Los Angeles), 1990. Organic chemistry.

Charles M. Berg. Professor & Chair of Theatre & Film: Ph.D., Iowa, 1973. Film/television history, theory & criticism: American popular culture, music & media.

David M. Bergeron. Esther Conger Gabel & M. Wren Gabel Teaching Professor of English: Ph.D., Vanderbilt, 1964. Shakespeare & Renaissance studies.

Cindy L. Berrle. Assistant Professor of Chemistry: Ph.D., California (Berkeley), 1997. Physical chemistry.

David Besson. Professor of Physics & Astronomy: Ph.D., Rutgers, 1986. Experimental physics & elementary particle physics.

Gautam Bhattacharyya. Associate Professor of Economics: Ph.D., Rochester, 1980. Natural resources, microeconomics, & economic theory.

Henry C. Bial. Assistant Professor of Theatre & Film: Ph.D. New York University, 2001. Theatre History & Criticism, Performance Theory, Religious Performance, & Jewish Popular Culture.

Monica Biernat. Professor of Psychology: Ph.D., Michigan: 1989. Stereotyping & prejudice, attitudes.

Sharon Billings. Assistant Professor of Ecology & Evolutionary Biology: Ph.D., Duke Univ., 1998. Ecosystem ecology & global change biology.

Roderick Black. Laboratory Director: Ph.D., Chemistry, 1997, Univ. of North Carolina (Chapel Hill).

Photo, page 406:

Assistant Professor of Business Gilbert Karuga works with an undergraduate business student who is learning to use HTML.

The National Survey of Student Engagement Institute at Indiana University selected KU as one of 20 U.S. universities with effective educational practices that merited further study. The final NSSE report said, "Many faculty members impressed us with the genuine care and concern they had for students." For more information, see www.iub.edu/~nsse.

Ross Black. Associate Professor of Geology: Ph.D., Wyoming, 1990. Geophysics.

John T. Booker. Associate Professor of French & Italian: Ph.D., Minnesota, 1974. 19th-century French literature, novel.

Andrew Borovik. Associate Professor of Chemistry: Ph.D., North Carolina, 1986. Inorganic/organic chemistry, supra molecular chemistry.

Kristin Bowman-James. Professor of Chemistry: Ph.D., Temple Univ., 1974. Inorganic metal chemistry.

Jonathan Boyarin. Robert M. Beren Distinguished Professor of Modern Jewish Studies: J.D., Yale Law School, 1998; Ph.D., New School for Social Research in New York, 1984. Jewish Studies, Jewish culture, reevaluation of Diaspora in contemporary Jewish life.

Beverly M. Boyd. Professor of English: Ph.D., Columbia, 1956. Middle English literature.

David A. Braaten. Associate Professor of Geography: Ph.D., California (Davis), 1988. Atmospheric science, remote sensing, climate change.

John F. Brandt. Professor of Speech-Language-Hearing: Sciences & Disorders: Ph.D., Iowa, 1965. Physiological acoustics.

Nyla Branscombe. Professor of Psychology: Ph.D., Purdue, 1986. Social cognition, feminist theory & research methodology.

S. Daniel Breslauer. Professor of Religious Studies: Ph.D., Brandeis, 1974. History of Jewish thought & practice & Hebrew scriptures, Western religious tradition & approaches to religion.

John J. Bricke. Professor of Philosophy: Ph.D., Edinburgh, 1968. British empiricism, philosophy of mind, moral philosophy & contemporary analytic philosophy.

Hannah Britton. Assistant Professor of Political Science & Women's Studies: Ph.D., Syracuse, 1999. African politics, gender politics, democratization & development, transnational movements.

Karl Brooks. Assistant Professor of Environmental Studies & of History: Ph.D., Kansas, 2000. Environmental law & policy in North America, energy & environment, non-governmental organizations in American politics, especially environmental policy, & American social & political history since 1945.

J. Christopher Brown. Assistant Professor of Geography & of Environmental Studies: Ph.D., UCLA, 1999. Political ecology, biogeography, Latin America & tropical environments, human & environmental dynamics of rural development.

John C. Brown. Professor of Molecular Biosciences: Ph.D., North Carolina State, 1973. Immunochimistry.

Rafe Brown. Assistant Professor of Ecology & Evolutionary Biology: Texas (Austin), 2003. Systematics, biodiversity, biogeography, herpetology.

Robert Brown. Professor of Mathematics: Ph.D., California (Berkeley), 1963. Functional analysis, partial differential equations.

Nathaniel Brunsell. Assistant Professor of Geography: Ph.D., Utah State, 2003. Atmospheric science.

Matthew Buechner. Associate Professor of Molecular Biosciences, Ph.D., Wisconsin (Madison), 1990. Epithelial cell function in the nematode *Caenorhabditis elegans*. Nematode developmental genetics.

Betty Bunce. Clinical Faculty, Speech-Language-Hearing: Sciences & Disorders: Ph.D., Kansas, 1986. Language-based preschool curriculum; therapy in naturalistic settings; interventions for children & adults with reading impairments.

Daryle H. Busch. Roy A. Roberts Distinguished Professor of Chemistry: Ph.D., Illinois, 1954. Inorganic chemistry.

Michael D. Butler. Associate Professor of English: Ph.D., Illinois, 1970. American literature, contemporary literature, Australian literature.

Ralph Byers. Professor of Mathematics: Ph.D., Cornell, 1983. Numerical analysis.

Byron Caminero-Santangelo. Associate Professor of English: Ph.D., California (Irvine), 1993. 20th-century British literature, African literature, postcolonial theory.

Marta Caminero-Santangelo. Associate Professor of English: Ph.D., California (Irvine), 1995. 20th century American & Latino/a literature, especially women's literature.

Diana P. Carlin. Professor of Communication Studies: Dean, Graduate School & International Programs: Ph.D., Nebraska (Lincoln), 1985. Political communication, persuasion & political debate.

Maria Carlson. Professor of Slavic Languages & Literatures: Ph.D., Indiana, 1981. Russian Silver Age, Russian cultural & intellectual history, Russian art & Soviet literature.

Robert G. Carlson. Professor of Chemistry: Ph.D., MIT, 1963. Organic chemistry.

James B. Carothers. Professor of English: Ph.D., Virginia, 1970. American literature.

Paulyn Cartwright. Assistant Professor of Ecology & Evolutionary Biology: Ph.D., Yale, 1997. Evolutionary development.

Peter J. Casagrande. Professor of English, Humanities & Western Civilization: Ph.D., Indiana, 1967. British literature of the 19th century & theory of creativity.

David Cateforis. Associate Professor of History of Art: Ph.D., Stanford, 1992. American art.

Hugh Catts. Professor & Chair of Speech-Language-Hearing: Sciences & Disorders: Ph.D., Florida, 1979. Developmental speech & language disorders & developmental dyslexia.

So-Min Cheong. Assistant Professor of Geography: Ph.D., Univ. of Washington, 2001. Economic sustainable resources & East Asia.

Michael D. Cherniss. Professor of English: Ph.D., California (Berkeley), 1966. Old & Middle English literature.

Margaret Childs. Associate Professor of East Asian Languages & Cultures: Ph.D., Pennsylvania, 1983. Premodern Japanese literature.

Anne S. Choi. Assistant Professor of American Studies: Ph.D., Southern California, 2003. Global U.S., U.S. 20th century, U.S. political, Asian American history; comparative U.S. ethnic history; Pacific Rim studies; diaspora studies.

Kelly Chong. Assistant Professor of Sociology: Ph.D., Chicago, 2002. Race/gender/ethnicity/religion.

Dennis Christilles. Associate Professor & Associate Chair of Theatre & Film: Ph.D., Kansas, 1990. Scenography, Czech design.

Shih-I Chu. Watkins Distinguished Professor of Chemistry: Ph.D., Harvard, 1974. Theoretical chemistry.

James Church. Associate Professor of Mathematics: Ph.D., Nebraska, 1966. Probability, statistics.

Allan Cigler. Chancellors Club Teaching Professor of Political Science: Ph.D., Indiana, 1973. Interest groups, political parties & elections.

Jonathan C.D. Clark. Hall Family Foundation Distinguished Professor of British History: Ph.D., Cambridge, 1981.

Katherine R.P. Clark. Assistant Professor of History & of Humanities & Western Civilization: Ph.D., Johns Hopkins, 2001. British History.

Edith W. Clowes. Professor of Slavic Languages & Literatures: Ph.D., Yale, 1981. 19th- & 20th-century Russian literature, Russian intellectual history & philosophy.

E. Benton Cobb. Associate Professor of Mathematics: Ph.D., Nebraska, 1965. Statistics.

Robert Cohen. Professor of Molecular Biosciences: Ph.D., Southern California, 1982. Molecular biology of cell differentiation & pattern formation in *Drosophila*.

John Colombo. Professor of Psychology: Ph.D., SUNY (Buffalo), 1981. Infant behavior & development; attention, perception, learning, & memory in the first two years of life; relations between central nervous system development & behavioral change: early motor development.

William J. Comer. Associate Professor of Slavic Languages & Literatures: Director of Ermal Garinger Academic Resource Ctr.: Ph.D., California (Berkeley), 1992. Language pedagogy, Russian culture & literature.

Paul M. Comoli. Associate Professor of Economics: Ph.D., Purdue, 1975. Resource economics & economics of the environment.

Kathryn Conrad. Associate Professor of English: Ph.D., Pennsylvania, 1996. 20th-century British & Irish literature, gender & cultural studies.

Victor Joseph Contoski. Professor of English: Ph.D., Wisconsin, 1969. American literature & contemporary poetry.

Anthony Corbelli. Professor of Classics: Ph.D., California (Berkeley), 1990. Latin literature, Roman cultural history.

Victoria Corbin. Associate Professor of Molecular Biosciences: Ph.D., Harvard, 1989. Molecular genetics of muscle formation in *Drosophila* embryos.

Sally Cornelson. Assistant Professor of History of Art: Ph.D., Courtauld Inst. of Art, London Univ., 1998. Italian Renaissance art.

Bernard Cornet. Distinguished Professor of Economics: Ph.D., Univ. of Paris, 1981. Microeconomics.

Luis R. Corteguera. Associate Professor of History: Ph.D., Princeton, 1992. Early modern Europe.

Christian S. Crandall. Professor of Psychology: Ph.D., Michigan, 1987. Social psychology.

Thomas E. Cravens. Professor of Physics & Astronomy: Ph.D., Harvard, 1975. Space physics & plasma physics.

Heide Crawford. Acting Assistant Professor of Germanic Languages & Literatures: Ph.D., Pennsylvania State. German Literature of the Age of Goethe (18th & early 19th century).

Michael H. Crawford. Professor of Anthropology: Ph.D., Washington at Seattle, 1967. Biological anthropology, anthropological genetics, biological basis of human behavior, primate genetics, genetic epidemiology, demography (Aleutian Islands, Central America, Caribbean, Europe, Russia).

Thomas Creese. Associate Professor of Mathematics: Ph.D., California (Berkeley), 1964. Analytic function theory, function algebras.

Ann Cudd. Professor of Philosophy & Director of Women's Studies: Ph.D., Pittsburgh, 1988. Philosophy of social science, social & political philosophy, feminist philosophy.

Rebecca Curtis. Assistant Professor of English: M.F.A., Syracuse, 2001. Fiction writing.

Gregory Cushman. Assistant Professor of History: Ph.D., Texas (Austin), 2003. International environmental history.

Dorothy Daley. Assistant Professor of Environmental Studies & of Political Science: Ph.D., California (Davis), 2001. Public policy, environmental policy, hazardous waste policy, environmental equity, ecosystem management, urban redevelopment.

Paul D'Anieri. Associate Professor of Political Science, Assoc. Dean. Humanities. Liberal Arts & Sciences: Ph.D., Cornell, 1991. International relations, comparative politics & politics in the post-Soviet states.

David Davido. Assistant Professor of Molecular Biosciences: Ph.D., Washington, 1996. Molecular pathogens.

Mary Catherine Davidson. Assistant Professor of English: Ph.D., Toronto, 2001. English language, Medieval studies.

- Leisha DeHart Davis.** Assistant Professor of Public Administration: Ph.D., Georgia Inst. of Technology, 2000. Policy & program evaluation with specialization in environmental & transportation policy.
- Raymond G. Davis.** Associate Professor of Public Administration: Ph.D., California (Davis), 1972. Public administration, organization theory, public health policy.
- Robin E.P. Davis.** Professor of Physics & Astronomy: Ph.D., Oxford, 1962. Experimental physics & elementary particle physics.
- Stuart Day.** Assistant Professor of Spanish & Portuguese: Ph.D., Cornell University, 2000. Contemporary Latin American literature, with a focus on theatre & performance in Mexico.
- Bartholomew C. Dean.** Associate Professor of Anthropology: Ph.D., Harvard, 1995. Social anthropology, critical theory, kinship, politics, exchange, symbolic forms, material culture, health & human rights (Amazonia & Latin America).
- Gerrit DeBoer.** Associate Professor of Ecology & Evolutionary Biology: Ph.D., Maryland, 1985. Chemical, behavioral, & neurophysiological basis of food plant selection by Lepidopterous insects.
- Richard T. DeGeorge.** University Distinguished Professor of Philosophy: Ph.D., Yale, 1959. Applied ethics, political philosophy & Marxism.
- Roberto deGuzman.** Assistant Professor of Molecular Biosciences: Ph.D., Maryland, 1998. Biophysics.
- Robert K. DeKosky.** Associate Professor of History: Ph.D., Wisconsin, 1972. History of physical sciences, especially chemistry.
- Douglas R. Denney.** Professor of Psychology: Ph.D., Washington (St. Louis), 1970. Child-clinical psychology, cognitive-perceptual development, modeling & imitation.
- Michael Dennis.** Assistant Professor of Communication Studies: Ph.D., Purdue, 2001. Health communication & new technology.
- Jerry Frank deNoyelles.** Professor of Ecology & Evolutionary Biology: Ph.D., Cornell, 1971. Aquatic ecology & phytoplankton distribution.
- William L. Dentler Jr.** Professor of Molecular Biosciences: Ph.D., Minnesota, 1973. Regulation of ciliary & flagellar assembly.
- Heather Desaire.** Assistant Professor of Chemistry, Ph.D., California (Berkeley), 2001. Analytical chemistry.
- Gerardo de Sousa.** Associate Professor of English: Ph.D., Kansas, 1982. Renaissance literature, Brazilian literature.
- Amy Devitt.** Esther Conger Gabel & M. Wren Gabel Teaching Professor of English: Ph.D., Michigan, 1982. Composition studies & English language.
- J.F. Devlin.** Associate Professor of Geology: Ph.D., Univ. of Waterloo, 1994. Hydrogeology/contaminant transport.
- Stephen M. Dickey.** Assistant Professor of Slavic Languages & Literatures: Ph.D., Indiana, 1997. Bosnian/Croatian/Serbian language, Slavic linguistics.
- Joseph Dien.** Assistant Professor of Psychology: Ph.D., Oregon, 1995. Cognitive psychology.
- Leslie Dienes.** Professor of Geography: Ph.D., Chicago, 1968. Geography of Russia & post-communist lands, energy policy & regional development.
- Walter W. Dimmick.** Associate Professor of Ecology & Evolutionary Biology: Ph.D., Southern Illinois (Carbondale), 1989. Molecular systematics of fishes.
- Jerome E. Dobson.** Professor of Geography: Ph.D., Tennessee, 1975. Integration of geographic information systems, remote sensing, & geography.
- Brian L. Donovan.** Assistant Professor of Sociology: Ph.D., Northwestern, 2001. Social control, social movements, culture.
- Michael J. Doudoroff.** Professor of Spanish & Portuguese: Ph.D., Stanford, 1969. Latin American literature & linguistics.
- Laurence R. Draper.** Professor of Molecular Biosciences: Ph.D., Chicago, 1956. Role of the immune system in periodontal disease. Immunology.
- Tyrone Duncan.** Professor of Mathematics: Ph.D., Stanford, 1967. Stochastic processes, control theory.
- Robert C. Dunn.** Professor of Chemistry: Ph.D., California (San Diego), 1992. Analytical chemistry.
- Arienne Dwyer.** Assistant Professor of Anthropology: Ph.D., Washington, 1996. Linguistic anthropology, typology, field methods, media archives, endangered-language documentation (China, Inner Asia).
- Jonathan Earle.** Associate Professor of History: Ph.D., Princeton, 1996. U.S. history.
- Dietrich Earnhart.** Associate Professor of Economics: Ph.D., Wisconsin, 1995. Environmental economics, law & economics, comparative economics.
- Sanae Eda.** Assistant Professor of East Asian Languages & Cultures: Ph.D., Ohio State, 2004. Language pedagogy.
- Susan M. Egan.** Associate Professor of Molecular Biosciences: Murphy Young Scholar: Ph.D., Cornell, 1991. Microbial genetics, transcription activation in *E. coli*.
- Stephen L. Egbert.** Associate Professor of Geography: Assistant Scientist, Kansas Applied Remote Sensing Program: Ph.D., Kansas, 1994. Remote sensing, interactive cartographic displays, GIS.
- Ben Eggleston.** Assistant Professor of Philosophy: Ph.D., Univ. of Pittsburgh, 2002. Ethics, political philosophy, rational choice theory.
- Mohamed El-Hodiri.** Professor of Economics: Ph.D., Minnesota, 1966. Microeconomic theory & control theory.
- David Ekerdt.** Professor of Sociology & of Gerontology: Ph.D., Boston, 1979. Aging work & organization; medical sociology & family.
- Charles Eldredge.** Hall Family Foundation Distinguished Professor of American Art History & Culture: Ph.D., Minnesota, 1971. American art.
- Dorice Williams Elliott.** Associate Professor & Chair of English: Ph.D., Johns Hopkins, 1994. 19th-century British literature & culture, the novel, women's literature & gender studies.
- Michael S. Engel.** Associate Professor of Ecology & Evolutionary Biology: Ph.D., Cornell, 1998. Systematic entomology & paleontology.
- Charles Epp.** Associate Professor of Public Administration: Ph.D., Wisconsin (Madison), 1995. Law, judicial politics, & public administration.
- Steven A. Epstein.** Ahmanson-Murphy Distinguished Professor of History: Ph.D., Harvard, 1981. Medieval history.
- Richard L. Eversole.** Associate Professor of English: Ph.D., Wisconsin, 1970. 18th-century English literature.
- Tamara L. Falicov.** Associate Professor of Theatre & Film: Ph.D., California (San Diego), 1999. Latin American film, video production, political economy of film & television industries.
- Jianwen Fang.** Information Resource Manager, Dept. of Molecular Biosciences: Ph.D., Wayne State Univ., 2000. Bioinformatics, chemistry.
- Frank M. Farmer.** Associate Professor of English: Ph.D., Louisville, 1991. Rhetorical theory, composition studies.
- David Faurot.** Associate Professor of Economics: Ph.D., Northwestern, 1975. Labor economics.
- Daphne Fautin.** Professor of Ecology & Evolutionary Biology: Ph.D., California (Berkeley), 1972. Marine invertebrate natural history & systematics.
- Stephen B. Fawcett.** Professor of Applied Behavioral Science & Kansas Health Foundation Distinguished Professor for Community Leadership: Ph.D., Kansas, 1974. Community health & development, evaluation research, behavior analysis & intervention.
- Johannes J. Feddema.** Associate Professor of Geography: Ph.D., Delaware, 1991. Anthropogenic impacts on climate & environmental systems.
- Hume Feldman.** Associate Professor of Physics: Ph.D., State Univ. of NY, Stony Brook, 1989. Cosmology & astrophysics.
- Shengli Feng.** Associate Professor of East Asian Languages & Cultures: Ph.D., Pennsylvania, 1995. Chinese language.
- Sarah Hargus Ferguson.** Assistant Professor of Speech-Language-Hearing: Sciences & Disorders: Ph.D., Indiana, 2002. Speech acoustics & speech perception in normal & hearing-impaired listeners.
- Chris Fischer.** Assistant Professor of Physics & Astronomy: Ph.D., Michigan, 2000. Biophysics.
- Iris Fischer.** Associate Professor of English: Ph.D., Indiana, 1986. Modern & contemporary drama, literary & performance theory.
- Donald L. Fixico.** Thomas M. Bowlus Distinguished Professor of American Indian History: Ph.D., Oklahoma, 1980. American Indian history, ethnohistory, oral history.
- William Fleissner.** Professor of Mathematics: Ph.D., California (Berkeley), 1974. Set theory, topology.
- Erik Floor.** Associate Professor of Molecular Biosciences: Ph.D., California (Davis), 1969. Synaptic vesicle structure & function; role of oxidative stress in neurodegeneration.
- Debra J. Ford.** Instructor of Communication Studies: Ph.D., Kansas, 1999. Organizational rhetoric, communication theory, health communication & persuasion.
- Bryan Foster.** Associate Professor of Ecology & Evolutionary Biology: Ph.D., Michigan State, 1996. Plant community ecology, biodiversity.
- Diane Fourny.** Professor of French & Italian & Humanities & Western Civilization & Director of European Studies: Ph.D., Stanford, 1985. 18th-century French literature.
- David A Fowle.** Associate Professor of Geology: Ph.D., Notre Dame, 2000. Geobiology.
- Doreen Fowler.** Professor of English: Ph.D., Brown, 1974. 20th-century American literature, literature of the American South.
- Sherry Fowler.** Associate Professor of History of Art: Ph.D., California (Los Angeles), 1995. Japanese art.
- Ronald A. Francisco.** Professor of Political Science: Ph.D., Illinois (Urbana), 1977. Comparative politics & protest & coercion, international political economy, European politics.
- David W. Frayer.** Professor of Anthropology: Ph.D., Michigan, 1976. Biological anthropology, paleoanthropology, human osteology (Old World prehistory).
- H. George Frederickson.** Edwin O. Stene Distinguished Professor of Government: Ph.D., Southern California, 1967. American government, public administration & public policy.
- Bryant C. Freeman.** Professor of African & African-American Studies: Ph.D., Yale, 1961. Haitian language, literature, & culture; 17th-century French literature & French-speaking world.
- Paul Friedman.** Associate Professor of Communication Studies: Ph.D., Pennsylvania State, 1971. Human relations.
- Alison Gabriele.** Assistant Professor of Linguistics: Ph.D., CUNY, 2000.
- Sheryle Gallant.** Associate Professor of Psychology: Ph.D., Connecticut (Storke), 1980. Women's health, psychosocial aspects of premenstrual symptomatology; personality, gender stress & coping; interpersonal relationships.
- Fred Galvin.** Professor of Mathematics: Ph.D., Minnesota, 1967. Set theory, combinatorics.

Student Success in College: Creating Conditions That Matter, cites the University of Kansas as one of 20 universities and colleges nationwide that creates an effective learning environment for students to succeed in their college careers. The book, based on the 2004 Project DEEP report, praises KU for excelling in five main areas: instruction, service, research, internationalism, and humanitarian values, saying the university has “emphasized high-quality undergraduate instruction, the product of deliberate effort to balance its research and teaching missions.”

- T. Chris Gamblin.** Assistant Prof of Molecular Biosciences: Ph.D., Vanderbilt Univ., 1998. Role of tau in Alzheimers' & other neurodegenerative disorders.
- Julie Gatts.** Clinical Faculty, Speech-Language-Hearing: Sciences & Disorders: M.A., Kansas, 1987. Neurogenically based speech, language, & swallowing disorders.
- Estela Gavosto.** Associate Professor of Mathematics: Ph.D., Washington, 1990. Several complex variables, complex dynamics.
- Aleda Susan Gay.** Associate Professor of Mathematics: Ed.D., Oklahoma State, 1990. Mathematical education.
- Peter Gegenheimer.** Associate Professor of Molecular Biosciences: Ph.D., Washington Univ. (St. Louis), 1981. Structure, mechanism, & functional evolution of tRNA processing enzymes, subunit regulation of chloroplast ATP synthase.
- Anthony C. Genova.** Professor of Philosophy: Ph.D., Chicago, 1965. Metaphysics, theory of knowledge, history of modern philosophy, recent analytic philosophy.
- Elaine Gerbert.** Associate Professor of East Asian Languages & Cultures: Ph.D., Yale, 1990. Japanese literature.
- Deborah Gerner.** Professor of Political Science & Director of International Studies: Ph.D., Northwestern, 1982. International relations, foreign policy, Middle East, international political economy.
- Jane Gibson.** Associate Professor of Anthropology: Ph.D., Florida, 1992. Cultural anthropology, ecological anthropology, economic anthropology, natural resource management, tourism & development, applied visual anthropology (U.S., Central America).
- W. Mathew Gillispie.** Clinical Faculty in Speech-Language-Hearing Sciences & Disorders: M.A., Illinois (Urbana/Champaign), 1997.
- Donna Ginther.** Associate Professor of Economics: Ph.D., Wisconsin (Madison), 1995. Labor economics, economic demography, applied econometrics.
- Richard S. Givens.** Professor of Chemistry: Ph.D., Wisconsin, 1967. Organic chemistry, photochemistry.
- Jennifer Gleason.** Assistant Professor of Ecology & Evolutionary Biology: Ph.D., Yale, 1996. Evolutionary behavioral genetics.
- Stephen H. Goddard.** Professor of History of Art, Curator of Prints & Drawings: Ph.D., Iowa, 1983. Northern Renaissance art & prints.
- Tanya Golash-Boza.** Assistant Professor of American Studies & Sociology: Ph.D. North Carolina, 2004.
- Ellen Reid Gold.** Associate Professor of Communication Studies: Ph.D., Illinois, 1973. Rhetorical & political communication.
- Robert H. Goldstein.** Merrill W. Haas Distinguished Professor & Chair of Geology: Ph.D., Wisconsin, 1986. Carbonate diagenesis & stratigraphy.
- Luis Gonzalez.** Associate Professor of Geology: Ph.D., Michigan, 1989. Carbonate geology, isotope geochemistry, paleoclimatology.
- Marilu Goodyear.** Courtesy Associate Professor of Public Administration: Ph.D., Univ. of Colorado (Denver), 1993. Information management, Information Technology Policy.
- Pamela Gordon.** Associate Professor & Chair of Classics: Ph.D., Bryn Mawr, 1989. Ancient Greek & Roman literature & cultural history.
- Maryemma Graham.** Professor of English: Ph.D., Cornell, 1977. American & African literature & history, history of the book, cultural studies.
- Sandra J. Gray.** Associate Professor of Anthropology: Ph.D., SUNY, (Binghamton), 1992. Biological anthropology, human population biology, human growth & development, maternal & child health & nutrition, metabolic adaptation, pastoralists (East Africa).
- Marc L. Greenberg.** Professor & Chair of Slavic Languages & Literatures: Ph.D., UCLA, 1990. Slavic linguistics.
- J. Megan Greene.** Assistant Professor of History: Ph.D., Washington, 1997. Modern China.
- Michael Greenfield.** Professor of Ecology & Evolutionary Biology: Ph.D., Wisconsin, 1978. Behavioral ecology, animal communication & sexual selection.
- Andrea F. Greenhoot.** Assistant Professor of Psychology: North Carolina, 1997. Cognitive development, memory development; testimony for childhood experiences.
- Charles R. Greenwood.** Professor of Applied Behavioral Science: Ph.D., Utah, 1972. Education, research methods.
- James E. Grobe.** Assistant Professor of Psychology: Ph.D., Pittsburgh, 1999. Behavioral pharmacology, clinical psychology, nicotine, tobacco, addiction.
- John Gronbeck-Tedesco.** Professor of Theatre & Film: Ph.D., Iowa, 1974. Theory, history, directing; editor, *Journal of Dramatic Theory & Criticism*.
- Kristin L. Grosche.** Clinical Faculty in Speech-Language-Hearing Sciences & Disorders: M.S., Arizona, 1998.
- Donald P. Haider-Markel.** Associate Professor of Political Science: Ph.D., Wisconsin (Milwaukee), 1997. Public policy, executive & bureaucratic politics.
- Nancy Hamilton.** Assistant Professor of Psychology: Ph.D., Arizona State, 2001. Clinical health.
- Chun Han.** Assistant Professor of Mathematics: Ph.D., Purdue, 2005. Statistics.
- Siyuan Han.** Professor of Physics: Ph.D., Iowa State, 1986. Experimental condensed matter physics.
- Eric Alan Hanley.** Associate Professor of Sociology: Ph.D., Florida, 2001. Comparative historical social organization, & social inequity.
- Gregory P. Hanley.** Assistant Professor of Applied Behavioral Science: Ph.D., Florida, 2001. Behavior analysis & early childhood education.
- Allan Hanson.** Professor of Anthropology: Ph.D., Chicago, 1966. Social anthropology, semiotics, social impact of technology, social theory (Polynesia, contemporary U.S.).
- Paul Hanson.** Associate Professor of Chemistry: Ph.D., Minnesota, 1993. New methodology in organic chemistry.
- Richard F. Hardin.** Professor of English: Ph.D., Texas, 1966. English Renaissance, Comparative literature.
- John Joseph Harrington.** Associate Professor of English: Ph.D., California (Berkeley), 1995. U.S. literatures, 20th-century poetry & poetics.
- Scott Harris.** Assistant Specialist in Communication Studies, Ph.D., Northwestern, 1989. Argumentation, debate, public address, political communication, & environmental rhetoric.
- Susan K. Harris.** Joyce & Elizabeth Hall Distinguished Professor of American Literature & Culture, Dept. of English: Ph.D., Cornell, 1977. 19th-century American literature, regional literature, women's literature.
- William J. Harris.** Associate Professor of English: Ph.D., Stanford, 1974. American & African-American literature, creative writing, jazz studies.
- Edina Harsay.** Assistant Professor, Ph.D., Cornell, 1996. Membrane trafficking processes that transport protein & lipid cargo into (endocytosis) & out of (exocytosis) cells, & the mechanism of vesicle formation in the late secretory pathway using the yeast *Saccharomyces cerevisiae* as a model system.
- James W. Hartman.** Professor of English: Ph.D., Michigan, 1966. Diachnology & sociolinguistics.
- Stephen Hasiotis.** Associate Professor of Geology: Ph.D., Colorado (Boulder), 1997. Paleontology, ichnology, sequence stratigraphy, terrestrial paleoecology.
- Christopher Hauffer.** Professor of Ecology & Evolutionary Biology & Director of Undergraduate Biology: Ph.D., Indiana, 1977. Systematic botany.
- Marsha Hauffer.** Professor of History of Art: Ph.D., California (Berkeley), 1982. Chinese art history.
- Patricia Hawley.** Assistant Professor of Psychology: Ph.D. California (Riverside), 1994. Social Psychology.
- Bruce Hayes.** Assistant Professor of French & Italian: Ph.D., Yale, 2001. Renaissance French literature.
- Rebecca Hays.** Assistant Professor of Molecular Biosciences: Ph.D., Northwestern, 1999. Regulation of apoptosis in *Drosophila*.
- Thomas Heilke.** Professor of Political Science: Ph.D., Duke, 1990. Political theory, international relations, religion & politics.
- Robert Hemenway.** Chancellor & Professor of English & American Studies: Ph.D., Kent State Univ., 1966. English & American literature.
- Joseph H. Heppert.** Professor & Chair of Chemistry: Ph.D., Wisconsin, 1981.
- Chauncey C. Herbison.** Assistant Professor of African & African-American Studies: Ph.D., Kansas, (in progress). Ethnic studies, popular culture.
- Laura H. Herlihy.** Lecturer, Latin American Studies: Ph.D., Kansas, 2002. The Miskito People of Honduras.
- Peter Herlihy.** Associate Professor of Geography: Ph.D., Louisiana State, 1986. Latin America.
- Erik Herron.** Associate Professor of Political Science & Director of Ctr. for Russian, East European, & Eurasian Studies: Ph.D., Michigan State, 2000. Comparative politics, Russian, East European, & Eurasian studies.
- Anita Herzfeld.** Professor of Latin American Studies & Director of Undergraduate Advising: Ph.D., Kansas, 1978. English Creoles of Costa Rica, Panama & Honduras. Guarani in Paraguay.
- Peter M. Hierl.** Professor of Chemistry: Ph.D., Rice, 1967. Physical chemistry, chemical dynamics, chemical accelerator studies of the dynamics of reactive molecular collisions.
- Raymond L. Higgins.** Professor of Psychology: Ph.D., Wisconsin, 1973. Etiology & treatment of drug addiction, behavior modification.
- Lena Hileman.** Assistant Professor of Ecology & Evolutionary Biology: Ph.D., Harvard, 2002. Evolutionary developmental biology of plants, molecular evolution.
- Shirley Hill.** Professor of Sociology: Ph.D., Kansas, 1991. Family, medical systems, social inequality
- Cecily Hilsdale.** Assistant Professor of Art History: Ph.D. Chicago, 2003. Medieval art.
- Bernard A. Hirsch.** Associate Professor of English: Ph.D., Illinois, 1975. Romantic period, Native American literature.
- Jack Hofman.** Associate Professor of Anthropology: Ph.D., Tennessee, 1986. Archaeology, hunters & gatherers, evolutionary ecology, lithics (Plains, eastern North America).
- David S. Holmes.** Chancellors Club Teaching Professor of Psychology: Ph.D., Northwestern, 1965. Personality, defense mechanisms, teaching evaluations.
- Joan Holmes.** Associate Professor of Germanic Languages & Literatures: Ph.D., Johns Hopkins, 1976. German studies, 20th-century literature & culture.
- Wilma Holt.** Instructor in Applied Behavioral Science: M.S., Oklahoma State, 1966. Early childhood education & teacher training.
- John Hoopes.** Associate Professor of Anthropology: Ph.D., Harvard, 1987. Archaeology, human ecology, digital & Internet applications, ceramic analysis (Southern Central America, Mesoamerica, South America).

- Yaozhong Hu.** Assistant Professor of Mathematics: Ph.D., Louis Pasteur (France), 1992. Probability theory & applications.
- Weizhang Huang.** Professor of Mathematics: Ph.D., Chinese Academy, 1989. Numerical analysis.
- Mary Lee Hummert.** Professor of Communication Studies: Ph.D., Kansas, 1987. Quantitative research, methods, interpersonal communications.
- Craig Huneke.** Henry J. Bischoff Distinguished Professor of Mathematics: Ph.D., Yale, 1978. Commutative algebra, algebraic geometry.
- Stephan Ilardi.** Associate Professor of Psychology: Ph.D., Duke, 1995. Maladaptive cognitive process.
- Wonpil Im.** Assistant Professor of Molecular Biosciences: Ph.D., Weill Medical College, Cornell University, 2002. Theoretical/computational methods to chemical & physical problems in biology & material science.
- Rick Ingram.** Professor of Psychology: Ph.D., Kansas, 1983. Clinical psychology.
- Kenneth Irby.** Associate Professor of English: M.L.S., California (Berkeley), 1968. Poetry & the writing of poetry.
- Shigeru Iwata.** Professor of Economics: Ph.D., UCLA, 1988. Econometrics.
- Yolanda Jackson.** Associate Professor of Applied Behavioral Science & of Psychology: Ph.D., Alabama, 1995. Stress & trauma, development of resiliency, diversity issues.
- Matthew Jacobson.** Assistant Professor of Theatre & Film: M.F.A., Southern California, 1991. Video & film production, cinematography.
- Rudolf Jander.** Professor of Ecology & Evolutionary Biology: Ph.D., Munich, 1957. Animal behavior.
- John M. Janzen.** Professor of Anthropology: Ph.D., Chicago, 1967. Social anthropology, medical anthropology, semiotics, violence, trauma, & healing (Central Africa, Euro-American Mennonites).
- Ernest Jenkins.** Assistant Professor of History: Ph.D., Kansas, 2004. Medieval history.
- Kirsten Jensen.** Assistant Professor of Ecology & Evolutionary Biology: Ph.D. Connecticut, 2001. Systematics & biodiversity of parasites, especially elasmobranch tapeworms.
- Caroline Jewers.** Associate Professor of French & Italian: Ph.D., Oregon, 1990. Medieval French & Occitan literature & Medieval studies.
- Yi Jin.** Assistant Professor of Economics. Ph.D., Iowa, 2001. Macroeconomics, monetary economics, financial economics.
- Carey K. Johnson.** Professor of Chemistry: Ph.D., Iowa State, 1981. Physical chemistry.
- J. Kelly Johnson.** Lecturer of Undergraduate Biology: Ph.D., Kansas, 1987. Neurobiology.
- Michael L. Johnson.** Professor of English: Ph.D., Rice, 1968. Poetry, rhetorical theory, & Western American literature.
- Paul Edward Johnson.** Professor of Political Science: Ph.D., Washington (St. Louis), 1987. American politics, political economy & public policy, formal theory, methodology.
- Wallace S. Johnson.** Professor of East Asian Languages & Cultures: Ph.D., Pennsylvania, 1968. Chinese philosophy & law.
- William Johnson.** Professor of Geography: Ph.D., Wisconsin, 1976. Physical geography; geomorphology & past environments.
- Charles Jones.** Courtesy Associate Professor of Public Administration, Director of KU Public Management Ctr.: M.P.A., Harvard, 1988.
- Allard Jongman.** Professor of Linguistics: Ph.D., Brown, 1986. Production & perception of speech.
- Mark Joslyn.** Associate Professor of Political Science: Ph.D., Washington (St. Louis), 1996. American political science & public policy, methodology.
- Blung-Ghi Ju.** Assistant Professor of Economics: Ph.D., Rochester, 2001. Microeconomics, game theory, mathematical economics.
- Ted Juhl.** Associate Professor of Economics: Ph.D., Illinois, 1999. Time series econometrics.
- James F. Juola.** Professor of Psychology: Ph.D., Stanford, 1972. Human learning, cognition, memory.
- Juliet Kaarbo.** Associate Professor of Political Science & Government: Ph.D., Ohio State, 1993. International relations, foreign policy, comparative politics, & political psychology.
- Yasuyuki Kachi.** Assistant Professor of Mathematics: Ph.D., Univ. of Tokyo, 2005. Commutative Algebra/Algebraic Geometry.
- Roger Kaesler.** Professor of Geology: Ph.D., Kansas, 1965. Micropaleontology.
- Diane L. Kamola.** Associate Professor of Geology: Ph.D., Georgia, 1989. Sedimentology, sequence stratigraphy. Current research includes sequence stratigraphy of foreland basin sandstones, sequence stratigraphy of shallow marine reservoirs, & sedimentation & tectonics in the Basin & Range province.
- Dennis H. Karpowitz.** Associate Professor of Psychology: Ph.D., Oregon, 1972. Behavioral assessment & therapy of children & families, punishment & aversive conditioning, obesity.
- Daniel L. Katz.** Professor of Mathematics: Ph.D., Texas, 1982. Commutative algebra.
- David M. Katzman.** Professor of American Studies & Courtesy Professor of History & African & African-American Studies: Ph.D., Michigan, 1969. Race & ethnicity, African American culture, social & cultural history.
- John Keating.** Associate Professor of Economics: Ph.D., Northwestern, 1989. Monetary economics, time series, macroeconomics.
- William Keel.** Professor & Chair of Germanic Languages & Literatures: Ph.D., Indiana, 1977. German language & linguistics & dialectology.
- George A. Kellas.** Professor of Psychology: Ph.D., Alabama, 1968. Verbal learning, perceptual-motor skills.
- Alton D. Kelly Jr.** Associate Professor of French & Italian: Ph.D., North Carolina, 1982. 20th-century French literature, poetry.
- John K. Kelly.** Associate Professor of Ecology & Evolutionary Biology: Ph.D., Chicago, 1996. Evolutionary genetics, plant population biology.
- Paul T. Kelly.** Professor & Chair of Molecular Biosciences: Ph.D., Colorado, 1974. Synaptic transmission & plasticity.
- Jan Kelly.** Associate Professor & Chair of French & Italian: Ph.D., North Carolina (Chapel Hill). Contemporary France, with special emphasis on modern poetry, cinema, the recent novel, & the essay.
- Paul Kelton.** Assistant Professor of History: Ph.D., Oklahoma, 2001. U.S. History.
- Susan Kemper.** Roy A. Roberts Distinguished Professor of Psychology: Ph.D., Cornell, 1978. Psycholinguistics, language acquisition, communication skills.
- John Kennedy.** Assistant Professor of Political Science: Ph.D., California (Davis), 2002. Comparative politics, Chinese politics, rural political development.
- Marni Kessler.** Assistant Professor of History of Art: Ph.D., Yale, 1996. 19th-century European art history.
- Nina Kinti-Moss.** Lecturer, Latin American Studies. M.S.S.W., Wisconsin (Madison), 1988. Bilingual teacher training.
- Jeanne Klein.** Associate Professor of Theatre & Film: Ph.D., Kansas, 1987. Theatre for young audiences, K-12 drama education, audience studies.
- Arne Koch.** Assistant Professor of Germanic Languages & Literatures: Ph.D., North Carolina (Chapel Hill), 2001. 19th-century literature & culture.
- Jan M. Kozma.** Professor of French & Italian: Ph.D., Michigan, 1973. 19th- & 20th-century Italian literature.
- Leonard Krishtalka.** Professor of Ecology & Evolutionary Biology: Director of Biodiversity Inst.: Ph.D., Texas Tech, 1975. Evolutionary biology, biodiversity science & mammalian paleontology.
- Krzysztof Kuczera.** Associate Professor of Chemistry & of Molecular Biosciences: Ph.D., Polish Acad. of Science, 1985. Theoretical & computational chemistry of macromolecular structure, dynamics & interactions.
- Jill Kuhnheim.** Professor & Chair of Spanish & Portuguese: Ph.D., California (San Diego). Contemporary poetry, cultural studies, & gender studies in Spanish America.
- Adrienne Kunkel.** Associate Professor of Communication Studies: Ph.D., Purdue, 1999. Interpersonal communication.
- Elizabeth A. Kuznesof.** Professor of History & Director of Latin American Studies: Ph.D., California (Berkeley), 1976. Brazilian social history.
- Brian Laird.** Professor of Chemistry: Ph.D., California (Berkeley), 1987. Organic chemistry, physical chemistry.
- Audrey Lamb.** Assistant Professor of Molecular Biosciences: Ph.D., Vanderbilt School of Medicine, 1998. X-ray crystallographic analysis of enzymes associated with iron uptake.
- Melvin D. Landsberg.** Professor of English: Ph.D., Columbia, 1959. American literature.
- Jeffrey Lang.** Professor of Mathematics: Ph.D., Purdue, 1981. Commutative algebra.
- Mechele Leon.** Assistant Professor of Theatre & Film: Ph.D., Cornell, 2002. Theatre history, historiography, French theatre & culture.
- David Lerner.** Professor of Mathematics: Ph.D., Pittsburgh, 1972. Differential geometry, general relativity, dynamical systems.
- Cheryl Lester.** Director of American Studies & Associate Professor of English & American Studies & Courtesy Associate Professor of African & African-American Studies: Ph.D., SUNY (Buffalo), 1987. American literature, race & ethnicity, migration & immigration, family, cultural theory, American, African-American, Jewish American literature & culture, family studies.
- Eve Levin.** Associate Professor of History: Ph.D., Indiana, 1983. Russian/East European history. Editor, *The Russian Review*.
- Thomas J. Lewin.** Associate Professor of History: Ph.D., Northwestern, 1974. African history, history of technology, material culture, oral history.
- Xingong Li.** Assistant Professor of Geography: Ph.D., South Carolina, 2000. Geographic information systems, water resources & environmental modeling.
- Bruce Lieberman.** Associate Professor of Geology: Ph.D., Columbia, 1994. Paleontology, fossils, & the evolution of life.
- Paul Stephen Lim.** Esther Conger Gabel & M. Wren Gabel Teaching Professor of English: M.A., Kansas, 1974. Playwriting, contemporary drama.
- Julian Limburg.** Assistant Professor of Chemistry: Ph.D., Yale, 1999. Bio/inorganic chemistry.
- William Lindsey.** Assistant Professor of Religious Studies: Ph.D., Univ. of Pittsburgh, 2003. Religion in Japan, theory & method in the study of ritual & popular religion in East Asia.
- Todd Little.** Associate Professor of Psychology: Ph.D. California (Riverside), 1988. Quantitative psychology & developmental psychology.
- Weishi Liu.** Associate Professor of Mathematics: Ph.D., Georgia Inst. of Technology, 1997. Dynamical Systems.
- Diane Frome Loeb.** Associate Professor of Speech-Language-Hearing: Sciences & Disorders: Ph.D., Purdue, 1989. Normally developing & impaired child language.
- Stanford Loeb.** Coordinator Environmental Health & Safety: Ph.D., California (Davis), 1980. Aquatic Ecologist with a specialty in water quality science & policy applications.

In its final report, the National Survey of Student Engagement Institute at Indiana University said, "We made a good choice by including KU in the DEEP project (Documenting Effective Educational Practice). Many other colleges and universities will benefit from learning about KU's policies and practices." For more information, see www.iub.edu/~nsse.

KU faculty members teach both graduate and undergraduate students.

Stanley F. Lombardo. Professor of Classics & Director of University Honors Program: Ph.D., Texas, 1976. Greek & Latin literature.

Burdett Loomis. Professor of Political Science: Ph.D., Wisconsin (Madison), 1974. Legislative politics, interest groups, public policy analysis, political institutions.

Thomas Lorenz. Associate Professor of English: M.F.A., Bowling Green, 1971. Creative writing.

Catherine Loudon. Associate Professor of Ecology & Evolutionary Biology: Ph.D., Duke, 1986. Insect biomechanics & sensory physiology.

Erik Lundquist. Assistant Professor of Molecular Biosciences: Ph.D., Minnesota, 1995. Molecular mechanisms of nervous system development, genetic/molecular biological approach using the nematode *Caenorhabditis elegans*. Genetics, developmental neurobiology, molecular biology, cell biology.

Craig Lunte. Professor of Chemistry: Ph.D., Purdue, 1984. Analytical chemistry.

Beverly Mack. Associate Professor of African & African-American Studies: Ph.D., Wisconsin, 1981. African languages & literature, Hausa.

Elizabeth MacGonagle. Assistant Professor of African & African-American Studies & of History: Ph.D., Michigan State, 2002. History, African history, & African-American history.

G.L. Macpherson. Associate Professor of Geology: Ph.D., Texas, 1989. Hydrochemistry & hydrogeology.

Gregory J. Madden. Associate Professor of Applied Behavioral Science: Ph.D., West Virginia, 1995. Behavioral economics, impulsivity, addictive disorders.

Lacy Madison. Associate Professor of Theatre & Film: Ph.D., Washington State Univ.

Helena C. Malinakova. Assistant Professor of Chemistry: Ph.D., Illinois Inst. of Technology, 1998. Synthetic organic chemistry.

Satyagopal Mandal. Professor of Mathematics: Ph.D., Indian Statistical, 1985. Commutative algebra.

Rofe D. Mandel. Associate Professor of Anthropology: Ph.D. Kansas, 1991. Geoarchaeology, landscape evolution, geomorphology, paleoenvironmental reconstruction (Great Plains, Midwest Mediterranean, Gulf Coastal Plains).

Patricia Manning. Assistant Professor of Spanish & Portuguese: Ph.D., Yale, 2001. Golden Age prose & religion in Early Modern society.

Beth Innocenti Manolescu. Assistant Professor of Communication Studies: Ph.D., Illinois, 2000. Public address, history of rhetoric & argumentation.

Danny Marfatia. Assistant Professor of Physics & Astronomy: Ph.D., Wisconsin (Madison), 2001. Theoretical particle physics.

Justin Marlowe. Assistant Professor of Public Administration: Ph.D., Wisconsin (Milwaukee), 2004. Public budgeting.

Lynn R. Marotz. Assistant Professor of Applied Behavioral Science: Ph.D., Kansas, 1996. Early childhood education, teacher training, children's health & nutrition, & leadership/administration.

Donald B. Marquis. Professor of Philosophy: Ph.D., Indiana, 1970. Ethics, medical ethics.

Craig E. Martin. Chancellors Club Teaching Professor & Chair of Ecology & Evolutionary Biology: Ph.D., Duke, 1980. Ecological plant physiology.

Jeremy Martin. Assistant Professor of Mathematics: Ph.D., Indiana, 2005. Dynamical systems.

Larry D. Martin. Professor of Ecology & Evolutionary Biology: Ph.D., Kansas, 1973. Higher vertebrate paleontology, systematics & functional morphology of fossil mammals & birds.

Rex Martin. Professor of Philosophy: Ph.D., Columbia, 1967. Political & legal philosophy, philosophy of history.

Edward A. Martinko. Professor of Ecology & Evolutionary Biology & Director of Kansas Biological Survey: Ph.D., Kansas, 1976. Remote sensing, geographic information systems, landscape ecology, ecosystems ecology, & insect ecology.

Leonie A. Marx. Professor of Germanic Languages & Literatures: Ph.D., Illinois, 1976. Modern German literature, Scandinavian literature.

Jonathan Mayhew. Associate Professor of Spanish & Portuguese: Ph.D., Stanford, 1988. Modern Spanish poetry & literary theory.

Steven Maynard-Moody. Professor of Public Administration & Director of Policy Research Inst.: Ph.D., Cornell, 1981. Public administration, organization theory, policy analysis.

George F. McCleary Jr. Associate Professor of Geography: Ph.D., Wisconsin, 1969. Cartography, human factors, GIS.

Elizabeth McClellan. Associate Professor of Geology: Ph.D., Tennessee (Knoxville), 1993. Igneous & metamorphic petrology, geochemistry, regional tectonics.

Kathleen McCluskey-Fawcett. Professor of Psychology, Senior Vice Provost for Academic Affairs: Ph.D., Kansas, 1977. Developmental psychology, infant behavior & development, adolescent pregnancy & parenting.

Douglas W. McKay. Professor of Physics & Astronomy: Ph.D., Northwestern, 1968. Elementary particle physics & particle astrophysics.

Keith McMahon. Professor & Chair of East Asian Languages & Cultures: Ph.D., Princeton, 1984. Traditional & modern Chinese fiction, Chinese language.

Amy McNair. Associate Professor of History of Art: Ph.D., Chicago, 1989. Chinese art history.

Mikhail (Misha) V. Medvedev. Assistant Professor of Physics & Astronomy: Ph.D., Univ. of California, 1996. Space physics.

Paul Meier. Professor of Theatre & Film: B.A., Univ. of Kent (Canterbury), 1970; professional certification, Rose Bruford College & Univ. of London. Acting & vocal/dialect training.

Adrian L. Melott. Professor of Physics & Astronomy: Ph.D., Texas, 1981. Astrophysics & cosmology.

Lewis A. Mennerick. Associate Professor of Sociology: Ph.D., Northwestern, 1971. Comparative-historical, social change & social movement, social inequality.

Brent Metz. Lecturer, Assistant Dir. & Graduate Adviser, Latin American Studies: Ph.D. 1995, SUNY (Albany). Sociocultural anthropology, the Maya Chorti People of Guatemala.

Keesha Middlemass. Assistant Professor of Political Science: Ph.D., Georgia, 2003. Voting rights, representation & congress teaching, American government, national institutions & public policy.

James H. Mielke. Professor & Chair of Anthropology: Ph.D., Umass Amherst, 1974. Biological anthropology, population structure, demographic anthropology & historical epidemiology (Finland, Costa Rica).

Devon Mihesuah. Professor of Indigenous Studies: Ph.D., Texas Christian University.

Gerald E. Mikkelsen. Professor of Slavic Languages & Literatures: Ph.D., Wisconsin, 1971. Pushkin, Russian poetry, contemporary Russian literature.

Keith Miller. Professor of Applied Behavioral Science: Ph.D., Illinois, 1961. Experimental analysis of social behavior.

Timothy Miller. Professor & Acting Chair of Religious Studies: Ph.D., Kansas, 1973. Religion in America, new religious movements, & intentional communities.

Robert N. Minor. Professor of Religious Studies: Ph.D., Iowa, 1975. Religion in South Asia, methodology, religion & gender.

Terese Guinsatao Monberg. Assistant Professor of English: Ph.D., Rensselaer Polytechnic Institute, 2002.

Felix Moos. Professor of Anthropology: Ph.D., Washington, 1963. Applied anthropology & ethnology, culture change & development, comparative value systems, ethnic conflict (East & Southeast Asia, Pacific).

Jeffrey P. Moran. Associate Professor & Chair of History: Ph.D., Harvard, 1996. Cultural & intellectual history.

Darcy F. Morey. Assistant Professor of Anthropology: Ph.D., Tennessee (Knoxville), 1990. Archaeology, zooarchaeology, evolutionary theory (Plains/Midwest, Southeastern North America, Arctic).

Edward K. Morris. Professor & Chair of Applied Behavioral Science: Ph.D., Illinois, 1976. History & philosophy of psychology, developmental psychology, behavior analysis (basic, applied, & conceptual).

Mark E. Mort. Assistant Professor of Ecology & Evolutionary Biology: Ph.D., Washington State, 1999. Systematic Botany.

Charlene L. Muehlenhard. Professor of Psychology & of Women's Studies: Ph.D., Wisconsin, 1981. Rape & other forms of sexual coercion; the social construction of gender, sexuality, consent, & coercion.

Minae Mure. Assistant Professor of Chemistry: Ph.D., Osaka Univ., 1990. Bio/organic chemistry.

Michael J. Murray. Assistant Professor of Physics & Astronomy: Ph.D., Univ. of Pittsburgh, 1989. Nuclear Physics.

Garth A. Myers. Associate Professor of Geography & of African & African-American Studies: Ph.D., California (Los Angeles), 1993. Geography, African Geography, African History, development, cultural, political, African studies.

Joane P. Nagel. University Distinguished Professor of Sociology: Ph.D., Stanford, 1977. Race, ethnicity, social movements, comparative-historical, nationalism, sexualities, culture.

Mehrangiz Najafizadeh. Associate Professor of Sociology: Ph.D., Kansas, 1985. Social inequality, social change & social movements, Third World comparative historical.

John Nalbandian. Professor & Chair of Public Administration: Ph.D., Southern California, 1977. Organization theory & behavior, personnel administration, organization development.

Rita G. Napier. Associate Professor of History: Ph.D., American Univ., 1976. History of Kansas, trans-Mississippi West, history of the American Indian.

David Nualart. Professor of Mathematics: Ph.D., Univ. of Barcelona, 1975. Stochastic analysis probability.

Anna Neill. Associate Professor of English: Ph.D., Cornell, 1995. 18th-century British literature, cultural studies, & film.

Carolyn Nelson. Assistant Professor of History: Ph.D., Kansas, 1970. Roman history.

Kristi Neufeld. Assistant Professor of Molecular Biosciences: Ph.D., Utah, 1993. Role of the APC protein in the generation of colon cancer.

Carmen Taleghani Nikazm. Assistant Professor of Germanic Languages & Literatures: Ph.D., Texas (Austin), 1999. German applied linguistics & cross-cultural communication.

Sharon O'Brien. Associate Professor of Political Science & Indigenous Nations Studies: Ph.D., Oregon, 1978. Federal Indian Law, International Law, Tribal Governments.

Myunghyun Oh. Assistant Professor of Mathematics: Ph.D., Indiana, 2001. Algebra/Algebraic Geometry.

Jeffrey S. Olafsen. Assistant Professor of Physics & Astronomy: Ph.D., Duke, 1994. Experimental nonlinear physics, fluid dynamics, low temperature physics & non-equilibrium dynamics.

- Linda J. Olafsen.** Associate Professor of Physics & Astronomy: Ph.D., Duke, 1997. Experimental condensed matter physics, semiconductor physics.
- Shannon O'Leary.** Assistant Professor of Geography/Environmental Studies: Ph.D., Syracuse, 1997. Environmental geography.
- Naima Bousofara Omar.** Assistant Professor of African & African-American Studies: Ph.D., Texas, 1999. Linguistics, Arabic language & North African & Arabic culture.
- Maria Orive.** Associate Professor of Ecology & Evolutionary Biology: Ph.D., California (Berkeley), 1994. Population genetics.
- James A. Orr.** Professor of Molecular Biosciences & Chair of Division of Biological Sciences: Ph.D., Wisconsin, 1974. Neural control of breathing & blood pressure. Cardiopulmonary physiology.
- Yajaira Padilla.** Assistant Professor of Spanish & Portuguese: Ph.D., Univ. of California, San Diego, 2000. 19th & 20th century Latin American literature, Central American literature, U.S.-Latina/o literature, & contemporary Latin Americanist literary, cultural, & social theory.
- Stephen J. Parker.** Professor of Slavic Languages & Literatures: Ph.D., Cornell, 1969. Russian novel, comparative literature, Nabokov.
- Donald W. Parson.** Professor of Communication Studies: Ph.D., Minnesota, 1964. Argumentation, persuasion, rhetorical theory.
- William Paschke.** Professor of Mathematics: Ph.D., Oregon, 1972. Operator algebras.
- Allan H. Pasco.** Hall Family Foundation Distinguished Professor of 19th-century Literature, Dept. of French & Italian: Ph.D., Michigan, 1968. 18th, 19th, & 20th-century French literature & culture.
- Bozenna Pasik-Duncan.** Professor of Mathematics: Ph.D., Warsaw, 1978. Stochastic adaptive control theory, stochastic processes, statistics.
- David Clinton Pendergrass.** Lecturer of Undergraduate Biology: Ph.D., Missouri, 1997.
- Dorothy Pennington.** Associate Professor of African & African-American Studies & of Communication Studies: Ph.D., Kansas, 1974. Intercultural communication, African-American culture.
- Jorge Perez.** Assistant Professor of Spanish & Portuguese: Ph.D., California (Santa Barbara), 2003. 20th century Spanish peninsular.
- Andrew Townsend Peterson.** Professor of Ecology & Evolutionary Biology: Ph.D., Chicago, 1990. Biodiversity & evolution of the birds of the northern Neotropics.
- Cornel Pewewardy.** Associate Professor of Indigenous Nations Studies: Ph.D., (unknown). Native American education, policy & leadership.
- William Picking.** Associate Professor of Molecular Biosciences: Ph.D., Kansas, 1989. Mechanisms by which bacterial pathogens of the gastrointestinal tract promote disease.
- Raymond Pierotti.** Associate Professor of Environmental Studies & of Ecology & Evolutionary Biology: Ph.D., Dalhousie Univ., Halifax, 1980. Population ecology of birds & mammals, evolutionary ecology.
- Jack Porter.** Balfour S. Jeffrey Teaching Professor & Chair of Mathematics: Ph.D., New Mexico State, 1966. General topology & topological extensions.
- Catherine L. Preston.** Associate Professor of Theatre & Film: Ph.D., Pennsylvania, 1994. Visual culture, film & feminist theory, representation of gender & ethnicity.
- Kevin Price.** Professor of Geography: Ph.D., Utah, 1987. Remote sensing, geographical information systems, natural & agro-ecosystem studies, global & regional earth system change analysis.
- John Pultz.** Associate Professor of History of Art, Curator of Photography: Ph.D., NYU, 1993. Photography & modern art.
- Bangere Purnaprajna.** Associate Professor of Mathematics: Ph.D., Brandeis Univ., 1996. Algebraic geometry.
- Clifton Pye.** Associate Professor of Linguistics: Ph.D., Pittsburgh, 1980. Language acquisition, American Indian languages, syntax, semantics & morphology.
- Dennis B. Quinn.** Professor of English: Ph.D., Wisconsin, 1958. Renaissance & Medieval literature.
- Ivana Radovanovic.** Assistant Professor of Anthropology: Ph.D., Belgrade, 1993. Archaeology, hunter-gatherers & early food producers, material culture & belief systems, theories in archaeology, historical & political contexts of archaeological interpretation, lithics (Old World Europe, Southeastern Europe, Mediterranean).
- John P. Ralston.** Professor of Physics & Astronomy: Ph.D., Oregon, 1980. Elementary particle theory; particle astrophysics.
- Eric C. Rath.** Associate Professor of History: Ph.D., Michigan, 1999. Premodern Japanese history.
- Kenneth L. Ratzlaff.** Senior Scientist & Director of Electronics Design Lab: Ph.D., Illinois, 1975.
- Margaret Rausch.** Assistant Professor of Religious Studies: Ph.D., Free Univ. of Berlin, 1997. Islamic history, women in Islam, Islamic mysticism.
- Leonce Rushubirwa.** Assistant Professor of African/African-American Studies: Ph.D., Ohio University. Kiswahili & African languages.
- Mark Reaney.** Professor of Theatre & Film: M.F.A., Wisconsin (Madison), 1984. Scenography, computer-aided design, virtual reality technology.
- Alan Redd.** Assistant Professor of Anthropology: Ph.D., Penn State, 1998. Biological anthropology, human evolutionary genetics, forensic genetics (Oceania & Indian subcontinent).
- Cacilda M. Régo.** Assistant Professor of Spanish & Portuguese: Ph.D., Texas (Austin), 1997. Latin American Studies.
- Gary M. Reich.** Associate Professor of Political Science: Ph.D., North Carolina (Chapel Hill), 1985. Latin American politics, comparative politics.
- Mabel L. Rice.** University Distinguished Professor of Speech-Language-Hearing: Sciences & Disorders & Director of Child Language: Ph.D., Kansas, 1978. Language development & children's language disorders.
- Mark Richter.** Professor of Molecular Biosciences: Ph.D., New South Wales, 1982. Protein biochemistry, structure, function, & regulation of ATP synthases.
- Delores Ringer.** Associate Professor of Theatre & Film: M.F.A., Penn State, 1979. Scenography, women's theatre, directing, forum theatre.
- Isidro Rivera.** Associate Professor of Spanish & Portuguese: Ph.D., Illinois (Champaign-Urbana), 1989. Medieval literature.
- Mario Rivera.** Associate Professor of Chemistry: Ph.D., Arizona, 1991. Analytical chemistry.
- Michael Roberts.** Professor of Applied Behavioral Science & Psychology & Chair of Clinical Child Psychology: Ph.D., Purdue, 1978. Clinical child psychology; pediatric psychology: childhood injuries; mental health service delivery.
- Teresa Robertson.** Associate Professor in Philosophy: Ph.D., Princeton, 1998. Metaphysics; philosophy of language, history of 20th-century analytic philosophy.
- Jennifer Roberts Rogers.** Assistant Professor of Geology: Ph.D., Texas (Austin), 2000. Microbial geochemistry & hydrogeology.
- Judith Roitman.** Professor of Mathematics: Ph.D., California (Berkeley), 1974. General topology, set theory.
- Barbara Romzek.** Professor of Public Administration; Assoc. Dean, Social Sciences, Liberal Arts & Sciences: Ph.D., Texas, 1979. Public administration, leadership, organizational behavior, public personnel management.
- Sara Rosen.** Associate Professor & Chair of Linguistics: Ph.D., Brandeis, 1990. Theoretical syntax, lexicon-syntax relations, argument structure, language acquisition.
- Joshua Rosenbloom.** Professor of Economics: Ph.D., Stanford, 1988. Technological change, labor economics, economic history.
- Antno Rosenthal.** Associate Professor of History: Ph.D., Minnesota, 1990. Latin America.
- Amy Rossondo.** Assistant Professor of Spanish & Portuguese: Ph.D., Indiana, 2003. Golden age literature.
- Robert Rowland.** Professor & Chair of Communication Studies: Ph.D., Kansas, 1983. Rhetorical criticism, argumentation, social influence.
- Michael Rubin.** Assistant Professor of Chemistry: Ph.D., Moscow State University, 1998. Organic Chemistry.
- Tracy Russo.** Assistant Professor of Communication Studies: Ph.D., Kansas, 1995. Organizational communication & new technology.
- Kerry Sabbag.** Assistant Professor of Slavic Languages & Literatures: Ph.D., Brown, 2005. Russian literature.
- Gitti Salami.** Assistant Professor of History of Art/African-American Studies: Ph.D., Iowa, 2004. African art & culture.
- Stephen J. Sanders.** Professor & Chair of Physics & Astronomy: Ph.D., Yale, 1977. Experimental nuclear physics.
- Norman E. Saul.** Professor of History: Ph.D., Columbia, 1965. Russian Empire & the Soviet Union, Russian Revolution, Russian-American relations.
- Benjamin Sax.** Associate Professor of History: Ph.D., Chicago, 1978. German history.
- Amy Schmisser.** Assistant Professor of Communication Studies: Ph.D., Texas (Austin), 2004. Organizational communication.
- Ann Schofield.** Professor of American Studies & Women's Studies & Courtesy Professor of History: Ph.D., SUNY (Binghamton), 1980. American social & cultural history, women's history.
- Thomas Schreiber.** Associate Professor of Psychology: Ph.D., Florida (Tampa), 1993. Relation between conscious & unconscious processes in human memory & cognition.
- Paul Schrodt.** Assistant Professor of Communication Studies: Ph.D., Univ. of Nebraska. Interpersonal communication, family communication, & instructional communication.
- Philip Schrodt.** Professor of Political Science: Ph.D., Indiana, 1977. International relations, mathematical modeling, foreign policy.
- Paul Schumaker.** Professor of Political Science: Ph.D., Wisconsin (Madison), 1973. Political theory, democratic theory, community politics.
- Emma Scioli.** Assistant Professor of Classics: Ph.D., California (Los Angeles), 2005. Latin literature, Roman cultural history.
- Daur Scott.** Assistant Professor of French & Italian: Ph.D., Univ. of Durham (U.K.), 2002. 17th-century French literature, theatre.
- William O. Scott.** Professor of English: Ph.D., Princeton, 1959. Renaissance literature, criticism, drama.
- George Semb.** Professor of Applied Behavioral Science: Ph.D., Kansas, 1972. Behavior analysis, education.
- Joan Sereno.** Associate Professor of Linguistics: Ph.D., Brown, 1988. Spoken & visual language comprehension & production.
- Sergei F. Shandarin.** Professor of Physics & Astronomy: Ph.D., Moscow Phys. Tech. Inst., 1971. Cosmology, large-scale structure, non-linear dynamics.
- Janet M. Sharistianian.** Associate Professor of English: Ph.D., Brown, 1975. Modern literature, women's studies.
- Elaine Sharp.** Professor & Chair of Political Science & Director of International Studies: Ph.D., North Carolina, 1978. Urban politics, citizen participation, public policy.

KU Assistant Professor of Theatre and Film Kevin Willmott's satirical film, "CSA: The Confederate States of America," premiered nationally in February 2006. KU Assistant Professor of Theatre and Film Matt Jacobson is the film's cinematographer. Spike Lee is its executive producer.

Ninety-seven percent of KU's full-time faculty have earned the highest degrees awarded in their fields.

Michael Shaw. Associate Professor of Classics: Ph.D., Texas, 1971. Greek literature.

Stephen J. Shawl. Professor of Physics & Astronomy: Ph.D., Texas (Austin), 1972. Stellar & galactic astronomy; polarization; astronomy education.

Jan B. Sheldon. Professor of Applied Behavioral Science: Ph.D., Kansas, 1974; J.D., Kansas, 1977. Community-based programs for persons with developmental disabilities.

Robert L. Shelton. Associate Professor of Religious Studies: Ph.D., Boston, 1970. Religious ethics, conflict & peace studies.

James A. Sherman. Professor of Applied Behavioral Science: Ph.D., Washington, 1964. Developmental disabilities, behavior analysis, & community interventions.

Albert Sheu. Professor of Mathematics: Ph.D., California (Berkeley), 1985. C* algebras, quantization, differential geometry, Lie groups.

Jicong Shi. Associate Professor of Physics: Ph.D., Houston, 1991. Nonlinear dynamics & accelerator physics.

Barbara G. Shortridge. Assistant Professor of Geography: Ph.D., Kansas, 1977. Cultural geography, urban, American regional foods.

James R. Shortridge. Professor of Geography: Ph.D., Kansas, 1972. Historical & cultural geography, United States & Canada.

Joseph M. Sicilian. Associate Professor & Chair of Economics: Ph.D., Purdue, 1977. Economic theory, public economics.

Antonio Simões. Associate Professor of Spanish & Portuguese: Ph.D., Texas (Austin), 1987. Hispanic linguistics.

Gregory Simpson. Professor & Chair of Psychology: Ph.D., Kansas, 1979. Experimental psychology.

Hagith Sivan. Associate Professor of History: Ph.D., Columbia, 1982. Roman history.

Garrick Skalski. Assistant Professor of Ecology & Evolutionary Biology: Ph.D., NC State, 2001. Theoretical ecology, ecology of stream fishes, molecular ecology.

Alexandre Skiba. Assistant Professor of Economics: Ph.D., Purdue, 2003. Public finance or international economics.

Lee Skinner. Associate Professor of Spanish & Portuguese: Ph.D., Emory Univ., 1996. 19th- & 20th-century Latin American literature.

Norman A. Slade. Professor of Ecology & Evolutionary Biology: Ph.D., Utah State, 1972. Mammalian population ecology.

Terry A. Slocum. Associate Professor & Chair of Geography: Ph.D., Kansas, 1980. Cartography, GIS, visualization.

Edward Small. Professor of Theatre & Film: Ph.D., Iowa, 1962. Film production & theory, documentary, experimental & animated film.

David N. Smith. Associate Professor of Sociology: Ph.D., Wisconsin, 1988. Theory, race & ethnicity, social change.

Deborah Smith. Associate Professor of Ecology & Evolutionary Biology: Ph.D., Cornell, 1982. Molecular systematics, honey bees, & social spiders.

Val Smith. Professor of Environmental Studies & of Ecology & Evolutionary Biology: Ph.D., Minnesota, 1982. Ecologist with a specialty in community & ecosystem ecology.

Curtis J. Sorenson. Associate Professor of Geography: Ph.D., Wisconsin, 1973. Soils, physical geography, geomorphology.

Robert C. Spires. Professor of Spanish & Portuguese: Ph.D., Iowa, 1968. Contemporary Spanish fiction.

Lloyd L. Sponholtz. Associate Professor of History: Ph.D., Pittsburgh, 1969. Progressive era, political analysis & behavioral research.

Joey Sprague. Professor of Sociology: Ph.D., Wisconsin, 1986. Gender methodology, theory.

Saul Stahl. Professor of Mathematics: Ph.D., Western Michigan, 1975. Combinatorics, geometry.

Milena Stanislavova. Assistant Professor of Mathematics: Ph.D., Missouri, 2000. Partial differential equations, dynamical systems.

John Staniunas. Associate Professor of Theatre & Film: M.F.A., Arizona (Tucson), 1984. Directing & directing theory, music theatre (history & performance).

William Staples. Professor & Chair of Sociology: Ph.D., Southern California, 1987. Political sociology, social control, comparative-historical, social inequality.

Ric G. Steele. Associate Professor of Applied Behavioral Science & Psychology: Ph.D., Georgia, 1998. Clinical child & pediatric psychology, adherence to medical treatment & family coping strategies in chronic & long-term illnesses (e.g., HIV/AIDS), family coping strategies in relation to chronic or long-term illnesses.

Donald W. Steeples. Dean A. McGee Distinguished Professor of Geology: Ph.D., Stanford, 1975. Reflection seismology & engineering studies.

Brent Steele. Assistant Professor of Political Science: Ph.D., Iowa, 2005. International ethics, international security studies, NGOs & transnational actors, Qualitative research methods.

Atanas Stefanov. Assistant Professor of Mathematics: Ph.D., Missouri, 1999. Harmonic analysis, partial differential equations, mathematical physics.

Dean A. Stetler. Associate Professor of Molecular Biosciences: Ph.D., Kansas, 1980. Structure & function of eukaryotic RNA polymerases & role in rheumatic autoimmune disease. Genetics.

Daniel Stevenson. Associate Professor of Religious Studies: Ph.D., Columbia, 1987. Religion in China, Buddhism in China & Japan, literary & ritual practice.

Daniel F. Stockli. Assistant Professor of Geology: Ph.D., Stanford, 1999. Thermochronology, structural geology, tectonics.

Linda A. Stone-Ferrier. Professor & Chair of History of Art: Ph.D., California (Berkeley), 1980. Northern Renaissance & Baroque art.

Holly Storkel. Assistant Professor of Speech-Language-Hearing: Sciences & Disorders: Ph.D., Washington (Seattle), 1998. Interactions between lexical & phonological acquisition in normal & clinical populations of children.

Marvin Stottlemire. Courtesy Associate Professor of Public Administration, KU Public Management Ctr.: Ph.D., Rice Univ., 1975; J.D., Univ. of Kansas, 1984. Management skills & practices, mediation.

Donald D. Stull. Professor of Anthropology: Ph.D., Colorado, 1973. M.P.H., UCB, 1975. Applied anthropology, policy studies, rapid growth communities, meat & poultry processing (U.S. Great Plains, Upper South, North American Indians).

Chester L. Sullivan. Associate Professor of English: Ph.D., Texas Christian, 1974. Creative writing.

Kathy Suprenant. Professor of Molecular Biosciences: Ph.D., Virginia, 1982. Biochemical, cellular & molecular genetic approach to studying the function of microtubule associated proteins in the nematode, *C. elegans*, as well as mammalian tumor cells. Molecular & cellular biology of the cytoskeleton in developing sea urchin embryos.

Marjorie E. Swann. Associate Professor of English: D.Phil., Oxford, 1990. Renaissance literature feminist criticism, material culture studies.

John F. Sweets. Professor of History: Ph.D., Duke, 1972. Modern France, Europe in the 19th & 20th centuries.

Fusao Takusagawa. Professor of Molecular Biosciences: Ph.D., Osaka City Univ., Japan, 1974. X-ray crystallography of proteins & nucleic acids.

Liang Tang. Assistant Professor of Molecular Biosciences: Ph.D. Chinese Academy of Sciences, 1998. X-ray crystallography & electron cryo-microscopy in understanding structural basis of assembly, dynamics & function of molecular complexes.

Edith L. Taylor. Professor of Ecology & Evolutionary Biology: Ph.D., Ohio State, 1983. Paleobotany of Antarctica, fossil tree rings & paleoclimate.

Michael H. Taylor. Assistant Professor of Geology: Ph.D., UCLA, 2004. Neotectonics.

Orley R. Taylor Jr. Professor of Ecology & Evolutionary Biology: Ph.D., Connecticut, 1970. Ecology, insect ecology, population ecology of Lepidoptera.

Thomas N. Taylor. Roy A. Roberts Distinguished Professor of Ecology & Evolutionary Biology: Ph.D., Illinois, 1964. Biology & evolution of fossil plants.

Jonathan Templin. Assistant Professor of Psychology: Ph.D., Illinois (Urbana Champaign), 2004. Quantitative psychology.

Valery J. Terwilliger. Associate Professor of Geography: Ph.D., UCLA, 1988. Biological geography, biogeochemistry.

Rachel H. Thompson. Assistant Professor of Applied Behavioral Science: Ph.D., Florida, 2001. Early childhood & behavior analysis.

Ward H. Thompson. Assistant Professor of Chemistry: Ph.D., California (Berkeley), 1996. Theoretical chemistry.

James H. Thorp. Professor of Ecology & Evolutionary Biology: Ph.D., North Carolina State, 1975. Aquatic community & ecosystem ecology.

John Tibbetts. Associate Professor of Theatre & Film: Ph.D., Kansas, 1982. Film history, practical criticism, archival studies, public policy & the media.

John E. Tidwell. Associate Professor of English: Ph.D., Minnesota, 1981. American & African-American literatures.

Carsten Timm. Assistant Professor of Physics & Astronomy: Ph.D., University of Hamburg.

Robert Timm. Associate Professor of Ecology & Evolutionary Biology: Ph.D., Minnesota, 1979. Mammalian systematics, tropical ecology, & host-parasite co-evolution.

Lisa Timmons. Assistant Professor of Molecular Biosciences: Ph.D., Johns Hopkins, 1996. RNAi interference suppression of gene expression in *C. elegans*.

Rodolfo Torres. Professor of Mathematics: Ph.D., Washington, 1989. Harmonic analysis, partial differential equations, signal analysis.

Harold Torrence. Assistant Professor of Linguistics: Ph.D., UCLA, 2006. Syntax of Wolof.

Linda Trueb. Professor of Ecology & Evolutionary Biology: Ph.D., Kansas, 1968. Biology of amphibians (herpetology).

Alexander G. Tsiolkh. Visiting Assistant Professor of Russian, East European, & Eurasian Studies: Ph.D., Univ. of Lviv, Ukraine, 1980. Ukrainian culture, literature, & history; ethnicity & nationalities in Eastern Europe. Ukrainian area studies; socio-linguistics.

George Tsofilias. Assistant Professor of Geology: Ph.D., Texas (Austin), 1999. Near-surface geophysics, hydrogeophysics, exploration geophysics.

William Tsutsui. Associate Professor of History: Ph.D., Princeton, 1993. Modern Japanese history.

Donna F. Tucker. Associate Professor of Geography: Ph.D., Colorado State, 1987. Atmospheric science, numerical modeling, mesoscale precipitation systems.

Sherrie J. Tucker. Associate Professor of American Studies: Ph.D., California (Santa Cruz), 1999. Jazz historiography, feminist theory, theories of race & ethnicity, cultural studies, oral history.

- Thomas Tuozzo.** Associate Professor & Chair of Philosophy: Ph.D., Yale, 1987. Ancient philosophy, moral theory.
- Leslie Tuttle.** Assistant Professor of History: Ph.D., Princeton, 2000. Early modern European history.
- William M. Tuttle Jr.** Professor of American Studies & Courtesy Professor of History & African & African-American Studies: Ph.D., Wisconsin, 1967. 20th-century American social, political, & cultural history, African-American history, history of childhood & the family.
- Bruce A. Twarog.** Professor of Physics & Astronomy: Ph.D., Yale, 1980. Astrophysics of galaxies.
- Peter Ukpokodu.** Professor & Chair of African & African-American Studies: Ph.D., Kansas, 1985. Religious studies, African-American Theatre, political drama, African theatre & film.
- Deb Olin Unferth.** Assistant Professor of English: M.F.A., Syracuse, 1998. Fiction writing, creative writing.
- Delbert L. Unruh.** Professor of Theatre & Film: M.A., Northwestern, 1966. Scenography, design theory.
- Vicky Unruh.** Professor of Spanish & Portuguese: Ph.D., Texas, 1984. Modern Spanish American narrative & theatre, the literary vanguards in Latin America, & Hispanic Caribbean literature.
- Randall Van Schmus.** Union Pacific Distinguished Professor: Ph.D., UCLA, 1964. Geochemistry & regional Precambrian geology.
- Margot Versteeg.** Assistant Professor of Spanish & Portuguese: Ph.D., Rijksuniversiteit Groningen, 1997. 19th century Iberian peninsula literature.
- Ilya Vasker.** Professor/Director Bioinformatics/Molecular Biosciences: Ph.D., Moscow State Univ., 1989. Bioinformatics.
- Erik Van Vleck.** Professor of Mathematics: Ph.D., Georgia Inst. of Technology, 1991. Computational dynamical systems.
- Eric Vernberg.** Associate Professor of Applied Behavioral Science & Psychology: Ph.D., Virginia, 1988. Children's experience with violence & disaster, friendship formation & peer rejection in adolescents.
- Marta Vicente.** Assistant Professor of History & of Women's Studies: Ph.D., Johns Hopkins, 1998. European women's history, feminist theory, women & work.
- Michael Vitevitich.** Assistant Professor of Psychology: Ph.D., SUNY (Buffalo), 1997. Behavioral & computational retrieval of words, perception, & production of spoken language.
- James Douglas Walker.** Professor of Geology: Ph.D., MIT, 1985. Tectonics & geochronology.
- Anthony W. Walton.** Associate Professor of Geology: Ph.D., Texas (Austin), 1972. Sedimentology.
- Joy Ward.** Assistant Professor of Ecology & Evolutionary Biology: Ph.D., Duke Univ., 1997. Global change; plant physiological ecology.
- Robert Ward.** Assistant Professor of Molecular Biosciences: Ph.D., Duke, 1998. Mechanisms that provide spatial & temporal specificity for morphogenesis. Elongation & eversion of the adult legs in *Drosophila*.
- Kim Warren.** Assistant Professor of History: Ph.D., Stanford, 2004. U.S. women's history.
- Steven F. Warren.** Professor of Applied Behavioral Science & Director of Schiefelbusch Inst. for Life Span Studies: Ph.D., Kansas, 1977. Early communication & language development & remediation, early intervention, prevention of mental retardation, prevention of child neglect.
- Donald K. Watkins.** Associate Professor of Linguistics: Ph.D., Indiana, 1969. Comparative Germanic, sociolinguistics.
- Catherine Weaver.** Assistant Professor of Political Science: Ph.D., Wisconsin, 2001. International relations, international political organizations.
- Robert F. Weaver.** Professor of Molecular Biosciences & Genetics; Assoc. Dean, Natural Sciences & Mathematics, Liberal Arts & Sciences: Ph.D., Duke, 1969. Molecular biology of baculoviruses, control of transcription.
- Jennifer L. Weber.** Assistant Professor of History: Ph.D., Princeton, 2005. Civil War, 19th century America, war & society.
- Jane Wegner.** Clinical Faculty, Speech-Language-Hearing: Sciences & Disorders: Ph.D., Kansas, 1992. Developmental disabilities, alternative & augmentative communication.
- Tara Silvestri Welch.** Associate Professor of Classics: Ph.D., California (Los Angeles), 1999. Augustan age literature, Roman topography, Athenian history.
- Jack M. Weller.** Assistant Professor of Sociology: Ph.D., Ohio State, 1972. Social change, social organizations, theory.
- Glen White.** Professor of Applied Behavioral Science: Ph.D., Kansas, 1991. Applied behavior analysis; disability studies; community development.
- Kevin Whitehead.** Lecturer, American Studies & English: M.A., Syracuse, 1978. Jazz studies.
- Edward Wiley.** Professor of Ecology & Evolutionary Biology: Ph.D., City Univ. of New York, 1976. Systematic & biogeography of fishes, theory of biological sciences.
- Crispin Williams.** Assistant Professor of East Asian Languages & Cultures: Ph.D., University of London, 2004. Early Chinese excavated texts, early Chinese language & culture.
- Judith Williams.** Assistant Professor of African & African-American Studies & of Humanities & Western Civilization: Ph.D., Stanford, 1997. African-American, Theatre, African Carnivals in the Americas, Brazilian Theatre.
- Kevin Willmott.** Assistant Professor of Theatre & Film: M.F.A., NYU, 1988. Screenwriting, film production management, African-American film.
- George S. Wilson.** Takeru Higuchi Distinguished Professor of Chemistry & of Pharmaceutical Chemistry: Ph.D., Illinois, 1965. Bio-analytical chemistry.
- Graham W. Wilson.** Assistant Professor of Physics & Astronomy: Ph.D., Lancaster, 1989. Electro-weak measurements & searches for new particles in elementary particle physics.
- Theodore A. Wilson.** Professor of History: Ph.D., Indiana, 1966. U.S. diplomatic history.
- James W. Woelfel.** Professor of Philosophy & Humanities & Western Civilization & Director of Humanities & Western Civilization: Ph.D., St. Andrews, 1967. Existentialism, philosophy of religion, modern Western philosophical & religious thought, religion & modern literature.
- Nathaniel D. Wood.** Assistant Professor of History: Ph.D., Indiana Univ., 2005. 19th & 20th century Eastern Europe, Poland, Modern Europe, Urban & Cultural History, the Popular Press.
- William Woods.** Director of Environmental Studies & Professor of Geography & Environmental Studies: Ph.D., Wisconsin (Milwaukee), 1986. Prehistoric American Indian agriculture.
- Donald E. Worster.** Hall Family Foundation Distinguished Professor of American History: Ph.D., Yale, 1971. U.S. history, environmental history.
- Jack B. Wright.** Professor of Theatre & Film: Ph.D., Kansas, 1969. Acting, directing, American theatre history.
- Lawrence S. Wrightman Jr.** Professor of Psychology: Ph.D., Minnesota, 1959. Social psychology, social issues, & the psychology of personality.
- Judy Zhihong Wu.** Professor of Physics & Astronomy: Ph.D., Houston, 1993. Many-body theory, superconductivity, liquid helium.
- Shu Wu.** Assistant Professor of Economics: Ph.D., Stanford, 2000. Macroeconomics, financial economics.
- Honggou Xu.** Associate Professor of Mathematics: Ph.D., Fudan Univ., 1991. Numerical linear algebra.
- Akira Yamamoto.** Professor of Anthropology & of Linguistics: Ph.D., Indiana, 1974. Linguistic anthropology, linguistics & education, culture theory & culture change, language endangerment & maintenance (U.S. Southwest, Southeast, East Asia).
- Vladimir Yamshchikov.** Associate Professor of Molecular Biosciences: Ph.D., Novosibirsk Inst. of Biorganic Chemistry, Russia, 1989. Flaviviruses, members of the flavivirus genus in the family Flaviviridae.
- Fiona O. Yap.** Associate Professor of Political Science: Ph.D., Rochester, 1997. Comparative political economy: empirical testing in the East Asian newly industrialized countries.
- Michael Yellow Bird.** Associate Professor of American Studies & Director of Indigenous Nations Studies: Ph.D., Wisconsin (Madison), 1994. First Nations Peoples; structural social work; social development; human rights; effects of colonization & methods of decolonization; politics of identity; political prisoners/prisoner rights; spirituality; the use of narrative in the helping process.
- John G. Younger.** Professor of Classics: Ph.D., Cincinnati, 1973. Art & archaeology of pre-classical & classical Greece, Aegean seals, classical sculpture, gender & sexuality in the ancient world, Greek & Roman music, LGBT/Queer issues in academe, Internet technology & humanities computing.
- Jianbo Zhang.** Associate Professor of Economics: Ph.D., Penn State, 1991. Microeconomics.
- Jie Zhang.** Assistant Professor of Linguistics: Ph.D., UCLA, 2001. Theoretical phonology, phonetics, Chinese languages.
- Yan Bing Zhang.** Assistant Professor of Communication Studies: Ph.D., Kansas 2002. Intercultural communication, media & quantitative research methods.
- Yang Zhang.** Assistant Professor of Molecular Biosciences: Ph.D., Center China Normal University, 1996. Extracting structural & functional insights from genome sequences using bioinformatic approaches.
- Paul Zimdars-Swartz.** Lecturer in Religious Studies: Ph.D. Claremont, 1977. 19th-century German philosophy & theology, gender issues in Christianity.
- Sandra Zimdars-Swartz.** Professor of Religious Studies & of Humanities & Western Civilization: Ph.D., Claremont, 1978. History of Christianity, religious experience, Marian doctrine & devotion, women & religion, popular religion (Christianity).
- Mary K. Zimmerman.** Professor of Health Services Administration & Sociology: Ph.D., Minnesota, 1976. Gender, medical, research methodology.
- Michael Zogry.** Assistant Professor of Religious Studies: Ph.D. California (Santa Barbara), 2003. Native American religions, theory & method in the study of ritual, religions of America.

Retired Members of the Faculty

Professors

- James M. Akagi. Ph.D., Molecular Biosciences
 John T. Alexander. Ph.D., History
 K. Eileen Allen. M.Ed., Applied Behavioral Science
 John T. Alexander. Ph.D., History
 Ernest E. Angino. Ph.D., Geology
 Kenneth B. Armitage. Ph.D., Distinguished Professor Emeritus of Ecology & Evolutionary Biology
 Thomas P. Armstrong. Ph.D., Physics & Astronomy
 John P. Augelli. Ph.D., Geography
 Howard Baumgartel. Ph.D., Communication Studies, Psychology

KU's total research expenditures in fiscal year 2005 for all projects, including sponsored research, training and service grants in all fields, were \$281 million, a 3 percent increase over 2004.

In addition to university-wide distinguished professorships, many schools and departments offer distinguished and teaching professorships to talented faculty members.

Robert C. Bearse. Ph.D., Physics & Astronomy
 Forrest G. Berghorn. Ph.D., American Studies
 Surendra Bhana. Ph.D., History
 Jon A. Blubaugh. Ph.D., Communication Studies
 William R. Blue. Ph.D., Spanish & Portuguese
 Jean-Pierre Boon. Ph.D., French & Italian
 Rolf Borchert. Ph.D., Molecular Biosciences
 Eugene C. Bovee. Ph.D., Molecular Biosciences
 David G. Born. Ph.D. Applied Behavioral Sciences
 Jack W. Brehm. Ph.D., Psychology
 James A. Brundage. Ph.D., History
 John S. Brushwood. Ph.D., Roy A. Roberts Distinguished Professor
 Emeritus of Spanish & Portuguese
 Clarence S. Buller. Ph.D., Molecular Biosciences
 Brower R. Burchill. Ph.D., Molecular Biosciences
 Albert W. Burgstahler. Ph.D., Chemistry
 Paul R. Burton. Ph.D., Molecular Biosciences
 Donald G. Bushell Jr. Ph.D., Applied Behavioral Science
 George W. Byers. Ph.D., Ecology & Evolutionary Biology
 Vernon Chamberlin, Ph.D., Spanish & Portuguese
 Anna M. Cienciala. Ph.D., History
 Robert Cobb. Ph.D., English
 William H. Coil. Ph.D., Ecology & Evolutionary Biology
 Richard Cole. Ph.D., Philosophy
 William A. Conboy. Ph.D., Communication Studies
 Paul F. Conrad. Ph.D., Henry J. Bischoff Distinguished Professor
 Emeritus of Mathematics
 Walter H. Crockett. Ph.D., Speech-Language-Hearing: Sciences &
 Disorders & Psychology
 Rue L. Cromwell. Ph.D., M. Erik Wright Distinguished Professor of
 Psychology
 Jack W. Culvahouse. Ph.D., Physics & Astronomy
 John W. Dardess. Ph.D., History
 John P. Davidson. Ph.D., Physics & Astronomy
 Arthur W. Davidson. Ph.D., Chemistry
 Jed H. Davis. Ph.D., Theatre & Film
 Louis F. Dellwig. Ph.D., Geology
 Ernst S. Dick. Ph.D., Germanic Languages & Literatures
 David A. Dinneen. Ph.D., French & Italian, Linguistics
 Wakefield Dort Jr. Ph.D., Geology
 Calvin W. Downs. Ph.D., Communication Studies
 Arthur D. Drayton. Ph.D., African & African-American Studies
 William E. Duellman. Ph.D., Ecology & Evolutionary Biology
 Joe R. Eagleman. Ph.D., Physics & Astronomy, Geography
 Aubrey Carroll Edwards. Ph.D., English
 Susan Embretson. Ph.D., Psychology
 Paul Enos. Ph.D., Merrill W. Haas Distinguished Professor of Geology
 Barbara C. Etzel. Ph.D., Applied Behavioral Science
 Grover W. Everett Jr. Ph.D., Chancellors Club Distinguished Professor
 Emeritus of Chemistry
 Robert R. Findlay. Ph.D., Theatre & Film
 Henry S. Fitch. Ph.D., Ecology & Evolutionary Biology
 William Fletcher. Ph.D., Russian, East European, & Eurasian Studies
 Robert J. Friauf. Ph.D., Physics & Astronomy
 Benjamin S. Friesen. Ph.D., Molecular Biosciences
 Kim Giffin. Ph.D., Communication Studies
 Paul W. Gilles. Ph.D., University Distinguished Professor Emeritus
 of Chemistry
 Elizabeth Goetz. Ph.D., Applied Behavioral Science
 Joel J. Gold. Ph.D., English
 Paul Goldhammer. Ph.D., Physics & Astronomy
 Grant K. Goodman. Ph.D., History
 Jacob U. Gordon, Sr. LL.D., D.D., African & African-American Studies
 Rose L. Greaves. Ph.D., History
 Roy E. Gridley. Ph.D., English
 Ernest Griswold. Ph.D., Chemistry
 James E. Gunn. Ph.D., English
 Alfred C. Habegger. Ph.D., English
 R. Vanu Hall. Ph.D. Applied Behavioral Sciences
 Charles E. Hallenbeck. Ph.D., Psychology
 William W. Hambleton. Ph.D., Geology
 Marlin D. Harmony. Ph.D., Chemistry
 Francis H. Heller. Ph.D., Roy A. Roberts Distinguished Professor
 Emeritus of Political Science & of Law
 Richard H. Himes. Ph.D., Molecular Biosciences
 Charles J. Himmelberg. Ph.D., Mathematics
 Frank E. Hoecker. Ph.D., Radiation Biophysics
 Floyd R. Horowitz. Ph.D., English
 Helmut E. Huelsbergen. Ph.D., Germanic Languages & Literatures
 Philip S. Humphrey. Ph.D., Ecology & Evolutionary Biology
 Earl S. Huyser. Ph.D., Chemistry
 Frances Ingemann. Ph.D., Linguistics
 Reynold T. Iwamoto. Ph.D., Chemistry
 Alfred E. Johnson. Ph.D., Anthropology: Dir., Museum of Anthropology
 J. Theodore Johnson Jr. Ph.D., French & Italian
 Roberta Johnson. Ph.D., Spanish & Portuguese
 Richard F. Johnston. Ph.D., Ecology & Evolutionary Biology

Charles N. Judson. Ph.D., Chemistry
 Richard L. Kay. Ph.D., History
 Paul A. Kitos. Ph.D., Molecular Biosciences.
 Jacob Kleinberg. Ph.D., Chemistry
 Walter Kollmorgen. Ph.D., Geography
 Ralph W. Krone. Ph.D., Physics & Astronomy
 Theodore Kuwana. Ph.D., Regents Distinguished Professor of
 Chemistry & of Pharmaceutical Chemistry
 William Kuhlke. Ph.D., Theatre & Film
 Nowhan Kwak. Ph.D., Physics & Astronomy
 John A. Landgrebe. Ph.D., Chemistry
 Erik Larsen. Ph.D., History of Art
 Judith M. LeBlanc. Ph.D., Applied Behavioral Science
 Stuart Levine. Ph.D., English
 Chu-Tsing Li. Ph.D., Judith Harris Murphy Distinguished Professor
 Emeritus of History of Art
 Alan R. Lichter. Ph.D., English literature
 Robert W. Lichtwardt. Ph.D., Ecology & Evolutionary Biology
 R. Lind. Ph.D., University Distinguished Professor Emeritus of Classics
 Wilmer A. Linkugel. Ph.D., Communication Studies
 Charles G. Masinton. Ph.D., English
 Jadwiga Maurer. Ph.D., Slavic Languages & Literatures
 Warren R. Maurer. Ph.D., Germanic Languages & Literatures
 Paul J. McCarthy. Ph.D., Mathematics
 Robert W. McColl. Ph.D., Geography
 Ronald L. McGregor. Ph.D., Ecology & Evolutionary Biology
 James F. McClendon. Ph.D., Mathematics
 Joseph Mendelson. Ph.D., Psychology
 John F. Michel. Ph.D., Speech-Language-Hearing: Sciences & Disorders
 Charles D. Michener. Ph.D., Watkins Distinguished Professor
 Emeritus of Entomology & Ecology & Evolutionary Biology.
 Kenneth L. Miner. Ph.D., Linguistics
 Anta Montet-White. Doctorat es Lettres, Anthropology; Curator, Mu-
 seum of Anthropology.
 Paul S. Mostert. Ph.D., Mathematics
 Herman J. Munczek. Ph.D., Physics & Astronomy
 Earl A. Nehring. Ph.D., Political Science
 Lynn H. Nelson. Ph.D., History
 Charles Neuringer. Ph.D., Psychology
 Robert E. Nunley. Ph.D., Geography
 Marion O'Brien. Ph.D., Applied Behavioral Sciences
 W. John O'Brien. Ph.D., Ecology & Evolutionary Biology
 Ronald R. Olsen. Ph.D., Economics
 Harold Orel. Ph.D., English
 Clifford P. Osborne. Ph.D., Philosophy
 W. Keith Percival. Ph.D., Linguistics
 Oliver C. Phillips Jr. Ph.D., Classics
 Jaroslaw A. Piekalkiewicz. Political Science
 G. Bailey Price. Ph.D., Stouffer Distinguished Professor Emeritus of
 Mathematics
 Francis W. Prosser Jr. Ph.D., Physics & Astronomy
 Robert Rankin. Ph.D., Linguistics
 Charles A. Reynolds. Ph.D., Chemistry
 W. Stitt Robinson. Ph.D., History
 Richard A. Robison. Ph.D., Hedberg Distinguished Professor Emeri-
 tus of Geology
 Howard Rosenfeld. Ph.D., Applied Behavioral Sciences
 Albert J. Rowell. Ph.D., Geology
 Claude K. Rowland. Ph.D., Political Science
 Robert B. Sanders. Ph.D., Molecular Biosciences
 Richard Sapp. Ph.D., Physics & Astronomy
 Richard L. Schiefelbusch. Ph.D., University Distinguished Professor
 Emeritus of Speech-Language-Hearing: Sciences & Disorders
 Gunther Schlager. Ph.D., Ecology & Evolutionary Biology
 K. Barbara Schowen. Ph.D., Chemistry.
 Richard L. Schowen. Ph.D., Chemistry
 Stephen R. Schroeder. Ph.D., Applied Behavioral Science
 Elizabeth A. Schultz. Ph.D., English
 Hans-Peter Schultze. Ph.D., Ecology & Evolutionary Biology
 James E. Seaver. Ph.D., History
 Harry Shaffer, Ph.D., Economics
 Delbert Shankel. Ph.D., Molecular Biosciences
 Edward I. Shaw. Ph.D., Molecular Biosciences
 Hampton W. Shirer. M.D., Molecular Biosciences
 Franklin G. Shontz. Ph.D., Psychology
 Delbert Shankel. Ph.D., Molecular Biosciences
 Edward I. Shaw. Ph.D., Molecular Biosciences
 Hampton W. Shirer. M.D., Molecular Biosciences
 Franklin G. Shontz. Ph.D., Psychology
 Robert J. Smith. Ph.D., Anthropology
 Raymond D. Souza. Ph.D., Spanish & Portuguese
 Haskell S. Springer. Ph.D., English
 Joseph Sprodlin, Ph.D., Applied Behavioral Sciences
 Robert J. Squier. Ph.D., Anthropology
 T.P. Srinivasan. M.A., Mathematics
 Heinrich A. Stammler. Ph.D., Slavic Languages & Literatures
 Charles L. Stansifer. Ph.D., History

Charles Stansifer. Ph.D., History
 Marilyn Stokstad. Ph.D. Judith Harris Murphy Distinguished
 Professor Emerita of Art History
 Robert Stump. Ph.D., Physics & Astronomy
 Max Keith Sutton. Ph.D., English
 James E. Titus. Ph.D., Political Science
 Robert D. Tomasek. Ph.D., Political Science
 Andrew M. Torres. Ph.D., Ecology & Evolutionary Biology
 Mary Townsend. M.S.W., Psychology
 Andrew Tsubaki. Ph.D., Theatre & Film
 Fred Van Vleck. Chancellors Club Teaching Professor of Mathematics
 Alfonso Verdu. Ph.D., Philosophy
 Carol A.B. Warren. Ph.D., Sociology
 Thomas J. Weiss. Ph.D., Economics
 Ronald A. Willis. Ph.D., Theatre & Film
 Ann R. Willner. Ph.D., Political Science
 John Willingham. Ph.D., English
 Gordon G. Wiseman. Ph.D., Physics & Astronomy
 George W. Woodyard. Ph.D., Spanish & Portuguese
 Kai-Wai Wong. Ph.D., Physics & Astronomy
 George J. Worth. Ph.D., English
 Beatrice A. Wright. Ph.D., Psychology
 De-Min Wu. Ph.D., Economics
 Charles R. Wyttenbach. Ph.D., Molecular Biosciences
 Norm Yetman, American Studies & Sociology
 Jerome M. Yochim. Ph.D., Molecular Biosciences

Associate Professors

Robert D. Adams. Ph.D., Mathematics
 Viola Anderson. M.S., Applied Behavioral Science
 Margaret J. Arnold. Ph.D., English
 William Arnold. Ph.D., Sociology
 Elizabeth Courtney Banks. Ph.D., Classics
 William L. Bloom. Ph.D., Ecology & Evolutionary Biology
 Albert B. Cook III. Ph.D., English
 Marie Z. Cross. Ph.D., Applied Behavioral Science
 Edmund R. Eglinski. Ph.D., History of Art
 Jacob Enoch. Ph.D., Physics & Astronomy
 Edward T. Erasmus. Ph.D., Linguistics
 Peter Frevert. Ph.D., Economics
 Henry Fullenwider. Ph.D., Germanic Languages & Literatures
 Edwyna Condon Gilbert. Ph.D., English
 Mary Amelia Grant. Ph.D., Latin & Greek
 Shirley Harkess. Ph.D., Sociology
 Michael M. T. Henderson. Ph.D., Linguistics
 Robert P. Hudson. M.D., History of Medicine, KU Medical Center
 Muriel Johnson. Ph.D., Applied Behavioral Sciences
 Kathryn A. Kirigin. Ph.D., Applied Behavioral Science
 John S. Macauley. Ph.D., Religious Studies
 Larry E. Marston. Ph.D., Speech-Language-Hearing: Sciences & Disorders
 Philip R. Montgomery. Ph.D., Mathematics
 Marjorie Z. Newmark. Ph.D., Molecular Biosciences
 Marion O'Brien. Ph.D., Applied Behavioral Science
 Jack B. Oruch. Ph.D., English
 Karl M.D. Rosen. Ph.D., Classics & Linguistics
 Arthur Skidmore. Ph.D., Philosophy
 Geoffrey H. Steere. Ph.D., American Studies
 Jeanne Stump. Ph.D., History of Art
 Arnold H. Weiss. Ph.D., Spanish & Portuguese
 Robert F. Wiseman. Ph.D., Geography
 Fumiko Y. Yamamoto. Ph.D., East Asian Languages & Cultures

Assistant Professors

Jack R. Cohn. Ph.D., English
 Richard H. Colyer. Ph.D., English
 Alita Cooper. M.A., Applied Behavioral Science
 Maude Elliott. M.A., Spanish & Portuguese
 Omar D. Gregory. Ed.D., Linguistics
 Maia Kipp. Ph.D., Slavic Languages & Literatures
 William James March. Ph.D., Slavic Languages & Literatures
 Cora L. Price. Ph.D., Classics
 Glenn W. Price. M.A., Theatre & Film
 Tamerlan Salaty. M.A., Slavic Languages & Literatures
 Carolyn Thomson. M.A., Applied Behavioral Science
 Donald F. Warders. Ph.D., English

Instructors

Alita Cooper. M.A., Applied Behavioral Sciences
 Margaret Cooper. M.A., Applied Behavioral Sciences
 Beatrice M. Lott. M.S., Applied Behavioral Science
 Joan Handley. M.S., Molecular Biosciences

Lecturers

Ermal Garinger. M.Ed., Spanish & Portuguese
 Dean H. Kerkman. Ph.D., Communication Studies
 Alfred J. Lata. M.A., Chemistry

School of Allied Health

Administration

Karen L. Miller, RN, FAAN, Ph.D., Senior Vice Chancellor & Dean
 Lou Loescher-Junge, PT, M.A., Assistant Dean, Administration

Faculty

S. Omar Ahmad. Assistant Professor of Occupational Therapy: Ph.D., Warnborough Univ., 2002.
Karri Arndt. Clinical Instructor in Nurse Anesthesia, CRNA: M.S., Univ. of Kansas, 1999.
Shelly D. Barenklau. Clinical Instructor in Nurse Anesthesia, CRNA: M.S.N., Univ. of Kansas, 1996.
Rachel Barkley Associate Professor of Dietetics & Nutrition & Dietetic Internship Program Director, RD, LD: M.S., Univ. of Missouri, 1979.
Adrienne Baxter. Instructor in Dietetics & Nutrition, RD, LD: M.S., Kansas State Univ., 1995.
Peter L. Beyer. Associate Professor of Dietetics & Nutrition, RD, LD: M.S., Missouri, 1973.
Lara Boyd. Assistant Professor of Physical Therapy & Rehabilitation Sciences: Ph.D., Univ. of Southern California, 2001.
Sara D. Brandt. Assistant Professor of Hearing & Speech: Ph.D., Univ. of Kansas 1987.
Catana Brown. Associate Professor of Occupational Therapy, OTR, FAOTA: Ph.D., Univ. of Kansas, 1999.
Edward Brown. Assistant Professor of Biometry: Ph.D., Univ. of Missouri (Kansas City), 1998.
Perri Cagle. Clinical Assistant Professor of Physical Therapy & Rehabilitation Sciences, PT: M.S., Central Missouri State Univ., 1991.
Susan Cannon. Clinical Instructor in Physical Therapy & Rehabilitation Sciences: M.S., Univ. of Kansas, 1981.
Susan E. Carlson. Midland Dairy Council Professor of Dietetics & Nutrition: Ph.D., Iowa State Univ., 1975.
Mary A. Carpenter. Associate Professor of Hearing & Speech: Ph.D., Iowa, 1969.
Mark E. Chertoff. Associate Professor of Hearing & Speech: Ph.D., Wisconsin, 1990.
Mary Chivington. Program Codirector & Clinical Instructor in Diagnostic Cardiac Sonography: B.S., Central Michigan Univ., 1986.
Jane Cox. Clinical Instructor in Occupational Therapy: M.S.O.T., Univ. of Kansas, 1996.
Tina Crain. Program Director & Instructor in Nuclear Medicine Technology: M.S., Kansas State Univ., 1995.
Mike Czervinske. Clinical Instructor in Respiratory Care, RT, RRT: B.S., Avila College, 1982.
Debora Daniels. Clinical Assistant Professor of Hearing & Speech: Ph.D., Univ. of Kansas, 2003.
Winifred Dunn. Professor & Chair of Occupational Therapy, OTR, FAOTA: Ph.D., Univ. of Kansas, 1983.
Carol G. Elliott. Assistant Professor & Chair of Nurse Anesthesia, CRNA: M.P.A., Univ. of Kansas, 1985.
Eric Elsinghorst. Research Associate Professor of Clinical Laboratory Science: Ph.D., Cornell Univ., 1987.
John Ferraro. Margaret Kemp Chair of Hearing & Speech: Ph.D., Univ. of Denver, 1972.
Marc Fey. Professor of Hearing & Speech: Ph.D., Purdue, 1981.
Byron Gajewski. Assistant Professor & Biostatistician: Ph.D., Texas A&M, 2000.
Mary Pat Gilbert. Clinical Instructor & Fieldwork Administrator in Occupational Therapy, OTR: M.S., Kansas State Univ., 1998.
Caryl Goodyear-Bruch. Clinical Assistant Professor of Nurse Anesthesia, RN, CCRN: Ph.D., Univ. of Kansas, 2005.
Bethene Gregg. Assistant Professor of Respiratory Care, RRT: Ph.D., Univ. of Kansas, 2005.
Linda D. Griffith. Clinical Assistant Professor of Dietetics & Nutrition RD, LD: Ph.D., Alabama A&M Univ., 1996.
Katherine Grobe. Assistant Professor of Occupational Therapy: Ph.D., Univ. of Kansas, 2001.
Patricia Hargrave. Assistant Professor of Clinical Laboratory Science: Ph.D., Univ. of Kansas, 1973.
Karen Haring. Clinical Instructor in Hearing & Speech, MAT, CCC-SLP: M.A., Univ. of Indiana, 1986.
Wendy Hildenbrand. Clinical Instructor in Occupational Therapy, OTR: M.P.H., Univ. of Kansas, 2002.
Mary Hise. Assistant Professor of Dietetics & Nutrition, RD, LD: Ph.D., Texas Tech Univ., 1994.
William Hudson. Program Codirector & Clinical Instructor in Diagnostic Cardiac Sonography: B.A., Kansas Wesleyan Univ., 1973.
Janet Hudzicki. Clinical Assistant Professor of Clinical Laboratory Science: Ph.D., Kansas State Univ., 2004.
Susan T. Jackson. Associate Professor of Hearing & Speech: Ph.D., Pittsburgh, 1992.
Anna M. Johnson. Clinical Instructor in Health Information Management, RHIA: B.S., Univ. of Kansas, 1990.
Mary K. Johnston. Clinical Instructor in Hearing & Speech: M.S., Univ. of Oklahoma, 1989.

KU scientists with the Kansas Geological Survey and the KU Tertiary Oil Recovery Project have teamed with private companies to force additional oil from Russell County wells. The project is estimated to generate 15 to 20 million barrels of oil from one oil field and result in large increases statewide.

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Sandra Johnston. Clinical Assistant Professor of Health Information Management, RHIA, CPC: M.S.Ed., Univ. of Kansas, 2002.

Jennifer Jones. Clinical Instructor in Clinical Laboratory Science, MT (ASCP): B.S., Duke, 1981.

Sandra Keener. Clinical Instructor in Hearing & Speech: M.A., Univ. of Kansas, 1987.

Patricia Kluding. Assistant Professor of Physical Therapy & Rehabilitation Sciences, PT: Ph.D., Seton Hall Univ., 2003.

Gail A. Knight-Sahfeld. Courtesy Instructor in Health Information Management, RHIA: B.S., Univ. of Kansas, 1975.

Karl Koob. Clinical Assistant Professor & Director of Health Information Management, RHIA: M.M.I.S., Univ. of Kansas, 2000.

Karen Kuphal. Assistant Professor of Physical Therapy & Rehabilitation Sciences: Ph.D., Univ. of Kansas, 2000.

R. Elaine Lenz. Clinical Instructor in Clinical Laboratory Science: B.S., Univ. of Kansas, 1970.

Wen Liu. Assistant Professor of Physical Therapy & Rehabilitation Sciences: Ph.D., Drexel Univ., 1997.

Janice Loudon. Associate Professor of Physical Therapy & Rehabilitation Sciences, PT, SCS, ATC: Ph.D., Washington Univ., 1993.

Barbara A. Ludwig. Assistant Professor & Chair of Respiratory Care, RRT: M.A., Univ. of Kansas, 1990.

Paul J. Mathews Jr. Associate Professor of Respiratory Care, RRT, FCCM: Ph.D., Missouri (Kansas City), 1998.

Joan McDowd. Professor of Occupational Therapy: Ph.D., Univ. of Toronto, 1986.

Marilee Means. Clinical Associate Professor & Program Director of Cytotechnology: Ph.D., Univ. of Kansas, 1994.

Ellen Mellard. Clinical Instructor in Occupational Therapy: M.S., Univ. of Kansas, 1980.

Roxanne Mettenburg. Assistant Professor of Clinical Laboratory Science: M.A., M.P.H., Univ. of Kansas, 1994.

Rebecca S. Nicholson. Clinical Instructor in Occupational Therapy, OTR: M.S.Ed., Univ. of Kansas, 1994.

Donna Nyght. Clinical Instructor in Nurse Anesthesia, CRNA: M.S., Univ. of Kansas, 1993.

Kathy Parker. Clinical Instructor in Occupational Therapy, OTR: M.S., Kansas State Univ., 1998.

Patricia Pohl. Associate Professor of Physical Therapy & Rehabilitation Sciences: Ph.D., Univ. of Southern California, 1995.

Jeff Radel. Associate Professor of Occupational Therapy: Ph.D., Dalhousie Univ., Halifax, Nova Scotia, 1987.

Staci M. Rivas. Clinical Instructor in Nurse Anesthesia: M.S.N., Rush Univ., 1999.

Julie Roth. Clinical Assistant Professor of Health Information Management, RHIA: M.H.S.A., J.D., Univ. of Kansas, 2002.

Carla Sabus. Clinical Instructor in Physical Therapy & Rehabilitation Sciences: M.S., Univ. of Osteopathic Medicine & Health Sciences (Des Moines), 1992.

Shirley J. Salmon. Professor Emeritus of Hearing & Speech: Ph.D., Iowa, 1965.

Aaron J. Schroeder. Clinical Instructor in Hearing & Speech: M.A., South Dakota, 1999.

Jeffrey Searl. Associate Professor of Hearing & Speech: Ph.D., Univ. of Kansas, 1999.

Yvonne Searls. Clinical Assistant Professor of Physical Therapy & Rehabilitation Sciences: Ph.D., Univ. of Kansas, 2004.

Neena K. Sharma. Clinical Instructor in Physical Therapy & Rehabilitation Sciences: M.S.P.T., Univ. of Kansas, 2000.

Irina Smirnova. Assistant Professor of Physical Therapy & Rehabilitation Sciences: Ph.D., Inst. of Organic Chemistry, Academy of Science of Ukraine, Kiev, Ukraine, 1990.

Candace Spalding. Courtesy Instructor in Ultrasound Technology: Ultrasound Certificate, KUMC, 1992.

Lisa Stehno-Bittel. Chair & Associate Professor of Physical Therapy & Rehabilitation Sciences: Ph.D., Univ. of Missouri, 1992.

Debra Sullivan. Associate Professor & Chair of Dietetics & Nutrition, RD, LD: Ph.D., Illinois (Urbana-Champaign), 1997.

Marcie Swift. Clinical Instructor in Physical Therapy & Rehabilitation Sciences, PT, FAAOMPT: M.S., Univ. of Kansas, 1996.

WenFang Wang. Research Assistant Professor of Physical Therapy & Rehabilitation Sciences: Ph.D., Univ. of Texas (Austin), 1997.

Peggy Waggoner. Clinical Instructor in Hearing & Speech: M.A., Wichita State Univ., 1982.

Venus Ward. Assistant Professor & Chair of Clinical Laboratory Science: Ph.D., Univ. of Kansas, 1995.

Christita Weber. Clinical Assistant Professor & Assistant Director of Nurse Anesthesia, CRNA: M.S., Univ. of Kansas, 1994.

Judith Widen. Associate Professor of Hearing & Speech: Ph.D., Washington, 1982.

Marcia Wrona. Teaching Associate in Biometry: B.S.W., Univ. of Kansas, 1971.

Mary Jane Youngstrom. Clinical Instructor in Occupational Therapy, OTR, FAOTA: M.S., South Florida, 1977.

Hao Zhu. Assistant Professor of Clinical Laboratory Sciences: Ph.D., Univ. of Texas (Austin), 1994.

School of Architecture and Urban Design

Administration

John C. Gaunt, FAIA, M.Arch., Dean
 Michael Swann, Ph.D., Associate Dean
 Donna Luckey, Ph.D., Chair of Architecture
 James M. Mayo Jr., Ph.D., Chair of Urban Planning

Faculty

Philippe Barrière. Associate Professor of Architecture: Ph.D., Sorbonne, Paris, 1986.

Bezaleel S. Benjamin. Professor of Architectural Engineering: B.E., Bombay, 1957; M.S., Imperial College, London Univ., 1959; Ph.D., Battersea College, London Univ., 1965.

Alan Black. Professor of Urban Planning: A.B., Harvard, 1953; M.C.P., Univ. of California (Berkeley), 1960; Ph.D., Cornell, 1975.

William Carswell. Associate Professor & Chair of Architecture: B.S. Arch., Belfast, 1972; Dipl. Arch., Belfast, 1974; M.U.P., Kansas, 1980.

Robert C. Coffeen. Lecturer in Architecture: B.S., Illinois, 1953.

Robert Corser. Assistant Professor of Architecture: B.A., Univ. of New Hampshire, 1989; M.Arch., Univ. of Virginia, 1993; M.D.S., Harvard, 2003.

Shannon Criss. Associate Professor of Architecture: B.Arch., Kansas State Univ., 1985; M.Arch., Harvard, 1993.

René F. Diaz. Professor of Architecture: B.Arch., Tulane, 1965; M.S., Columbia, 1970.

Cliff Ellis. Associate Professor of Urban Planning: B.A., Colorado College, 1973; M.P.C.D., Univ. of Colorado (Denver), 1982; Ph.D., Univ. of California (Berkeley), 1990.

Richard Farnan. Lecturer in Architecture: B.Arch., Kansas, 1973.

John C. Gaunt. Professor & Dean of Architecture & Urban Design, FAIA: B. Arch., Minnesota, 1964; M. Arch., Pennsylvania, 1967.

Thomas E. Glavinich. Associate Professor of Architectural Engineering: B.S., Kansas, 1976; M.S., Missouri, 1978; M.B.A., D.E., Kansas, 1982, 1990.

Nils Gore. Associate Professor of Architecture: B.Arch., Kansas State Univ., 1985; M.Arch., Harvard, 1993.

Stephen H. Grabow. Professor of Architecture: B.Arch., Michigan, 1965; M.Arch. (Urban Design), Pratt Inst., 1966; Ph.D. (Urban Planning), Washington, 1972.

Ann Huppert. Assistant Professor of Architecture: A.B., Vassar, 1988; M.Arch., Univ. of Virginia, 1992; Ph.D., Univ. of Virginia, 2001.

Hobart C. Jackson. Associate Professor of Architecture: B.A., Southern Illinois, 1967; M.S., Southern Illinois, 1971.

Wojciech Lesnikowski. Don Hatch Distinguished Professor of Architecture: Master of Architecture & Urban Planning, Polytechnic Inst., Poland, 1961.

Marie Alice L'Heureux. Assistant Professor of Architecture: B.Arch., McGill Univ., 1978; M.Arch., McGill Univ., 1993; Ph.D., Univ. of California (Berkeley), 2002.

Donna Luckey. Associate Professor & Chair of Architecture: B.E.D., Kansas, 1972; M.Arch., Ph.D., Univ. of California (Berkeley), 1975, 1981.

Judith K. Major. Professor of Architecture: Master of Landscape Architecture, Virginia, 1977; M.S.Arch., Ph.D., Pennsylvania, 1987.

James M. Mayo. Professor & Chair of Urban Planning: B.Arch., M.U.P., Texas A&M, 1966, 1968; Ph.D. (Sociology), Oklahoma State Univ., 1974. Planner, Sociologist.

Kirk McClure. Associate Professor of Urban Planning: B.Arch., B.A. (Urban Studies), Kansas, 1973, 1974; M.C.P., MIT, 1978; Ph.D. (City Planning), Univ. of California (Berkeley), 1985.

Mario A. Medina. Associate Professor of Architectural Engineering: B.S., 1987; M.S. (Mechanical Engineering), 1988, Texas A&I Univ.; Ph.D., Texas A&M Univ., 1992.

Barry J. Newton. Professor of Architecture: Dipl. Arch., Thames Polytechnic, 1969.

Steven R. Padgett. Associate Professor of Architecture: B.E.D., Kansas, 1973; M.S., Univ. College, London, 1975.

Anne Patterson. Lecturer in Architecture: B.Arch., Edinburgh College of Art, 1985; Dipl. Arch., Edinburgh College of Art, 1986.

Murali Ramaswami. Assistant Professor of Architecture: B.Arch., Madras Univ., 1984; M.Arch., Kansas State Univ., 1991.

Gaylord Richardson. Associate Professor of Architecture: B.Arch., M.Arch. & U.D., Washington (St. Louis), 1960, 1975.

Brian A. Rock. Associate Professor of Architectural Engineering: B.S., B.E.D., Kansas, 1985, 1985; M.S., Texas (Austin), 1986; Ph.D., Colorado, 1992.

Dan Rockhill. Professor of Architecture: B.Arch., Notre Dame, 1970; M.Arch., SUNY, Buffalo, 1976.

Dennis J. Sander. Associate Professor of Architecture: A.B., B.Arch., M.Arch., Pennsylvania, 1963, 1965, 1967.

Paola Sanguinetti. Associate Professor of Architecture: B.Arch., Univ. of Kansas, 1992; M.S., Columbia, 1993.

Daniel Serda. Visiting Assistant Professor of Urban Planning: A.B., Harvard, 1992; M.C.P., Ph.D., MIT, 1996, 2002.

Kent Spreckelmeyer. Professor of Architecture: B.Arch., Kansas, 1973; Dipl. Arch., London, 1974; D.Arch., Michigan, 1981.

Michael Swann. Associate Professor of Architecture & Associate Dean: B.A., Kansas, 1972; M.A., Syracuse, 1975; Ph.D., Syracuse, 1980.
Stacy Swearingen-White. Associate Professor of Urban Planning: B.A., Emory, 1989; M.S., Montana, 1993; Ph.D. (Environmental Studies), Univ. of Wisconsin, 1998.

Retired Members of the Faculty

David M. Griffin. Associate Professor, B.Arch., Oklahoma State Univ., 1961; M.Arch., Rice, 1966.
 Charles H. Kahn. FAIA, Professor, B. Civil Engr., B.Arch., North Carolina State; M.S., MIT
 Glen S. LeRoy. Associate Professor, B.Arch., Tulane; M.Arch., M.C.P., Pennsylvania
 W. Max Lucas Jr. Professor, B.S., M.S., Kansas; Ph.D., Oklahoma State
 Thomas W. McCoy, Associate Professor, B.Arch., Illinois
 Louis F. Michel, Professor, B.A., M.A., Michigan

School of Business

Administration

William L. Fuerst, Ph.D., Dean, Henry D. Price Distinguished Professor of Business
 Keith W. Chauvin, Ph.D., Associate Dean
 Charles E. Krider, Ph.D., Director, M.B.A. Programs
 Surendra Singh, Ph.D., Director, Doctoral Programs
 Paul Mason, Assistant Dean
 Ronald A. Ash, Area Director, Management, Marketing, & Law
 Douglas A. Houston, D.B.A., Area Director, Finance, Economics, & Decision Sciences
 James A. Heintz, Area Director, Accounting & Information Systems

Faculty

Raquel Alexander. Assistant Professor: Ph.D., Univ. of Texas. Accounting.
Christopher Anderson. Assistant Professor: Ph.D., Univ. of Pittsburgh. Finance.
Ronald A. Ash. Professor: Ph.D., South Florida. Human resources.
Vincent Barker. Associate Professor: Ph.D., Univ. of Illinois. Strategic management.
Barry Baysinger. Visiting Professor & Dir., Lawrence M.B.A. program: Ph.D., Virginia Polytechnic Institute & State Univ. Strategic management.
William L. Beedles. Professor & Sprint Faculty Fellow: Ph.D., Texas (Austin). Finance.
Melissa Birch. Associate Professor; Co-director of Center for International Business. Ph.D., Univ. of Illinois. Strategic management.
George Bittlingmayer. Wagnon Distinguished Professor: Ph.D., Univ. of Chicago. Finance.
Audra Boone. Assistant Professor: Ph.D., Pennsylvania State Univ. Finance.
John M. Charnes. Associate Professor: Ph.D., Minnesota. Decision sciences.
Keith W. Chauvin. Associate Professor & Koch Faculty Fellow: Ph.D., Illinois. Business economics.
Tailan Chi. Associate Professor: Ph.D., Univ. of Washington. Strategic Management.
Michael Ettredge. Associate Professor: Ph.D., Texas (Austin). Accounting.
N. Allen Ford. Larry D. Horner/KPMG Peat Marwick Distinguished Professor: Ph.D., Arkansas. Accounting.
John W. Gergacz. Professor: J.D., Indiana. Business law.
James P. Guthrie. Associate Professor & Dir., Center for Workforce Effectiveness: Ph.D., Maryland. Human resources.
James A. Heintz. Dir., Accounting & Information Systems & Professor: D.B.A., Washington Univ. Accounting.
Steven C. Hillmer. Professor, Ph.D. Wisconsin (Madison). Decision sciences.
Mark Hirschey. Professor & Stockton Faculty Fellow. Ph.D., Wisconsin (Madison). Finance.
David Hoopes. Assistant Professor: Ph.D., Univ. of California, Los Angeles. Strategic management.
Douglas A. Houston. Professor & Director of Finance, Economics, & Decision Sciences: D.B.A., Indiana. Business economics.
Virginia Ilie. Assistant Professor: Ph.D., Univ. of Central Florida. Information systems.
Vladimir Ivanov. Assistant Professor: Ph.D., Vanderbilt Univ. Finance
Kissan Joseph. Assistant Professor: Ph.D., Purdue. Marketing.
 Dennis F. Karney, Ned F. Fleming Distinguished Professor: Ph.D., Illinois. Decision sciences.
Gilbert Karuga. Assistant Professor: Ph.D., Univ. of Connecticut. Information systems.
Jill Kleinberg. Associate Professor: Ph.D., Michigan. Organizational behavior.
Canan Kocabasoglu. Assistant Professor: Ph.D., SUNY (Buffalo). Decision sciences.
Paul D. Koch. O. Maurice Joy Distinguished Professor: Ph.D., Michigan State. Finance.

Charles E. Krider. Director of Policy Research Institute & Professor: Ph.D., Chicago. Human resources.
Jeong-Yeong (Jay) Lee. Assistant Professor: Ph.D., Indiana Univ. Organizational behavior.
Youngwha (Gabe) Lee. Assistant Professor: Ph.D., Univ. of Colorado at Boulder. Information systems.
James Lemieux. Assistant Professor: Ph.D., Univ. of Texas. Marketing.
V. Parker Lessig. Frank S. Pinet Teaching Professor: Ph.D., Univ. of Kansas. Marketing.
Murray S. Levin. Associate Professor: J.D., Univ. of Kansas; M.B.A., Wisconsin. Business law.
Kenneth D. Mackenzie. Edmund P. Learned Distinguished Professor: Ph.D., Univ. of California (Berkeley). Organizational behavior.
Renate Mai-Dalton. Dir., Multicultural Business Scholars Program & Assistant Professor: Ph.D., Washington (Seattle). Organizational behavior.
George Marakas. Associate Professor: Ph.D., Florida International Univ. Information Systems.
Douglas May. Professor: Ph.D., Univ. of Illinois (Urbana-Champaign). Organizational Behavior.
Sanjay Mishra. Associate Professor: Ph.D., Washington State. Marketing.
Lisa Ottinger. Assistant Professor: Ph.D., Texas A&M Univ. Information Systems.
H. Joseph Reitz. Professor, Koch Faculty Fellow, Co-dir., International Center for Ethics in Business: Ph.D., MIT. Organizational Behavior.
Thomas Roberts. Assistant Professor: Ph.D., Auburn Univ. Information systems.
Dennis L. Rosen. Associate Professor: Ph.D., Minnesota. Marketing.
Susan W. Scholz. Assistant Professor: Ph.D., Southern California. Accounting.
Catherine Schwoerer. Associate Professor: Ph.D., North Carolina. Organizational behavior.
Timothy L. Shaftel. Jordan P. Haines Distinguished Professor: Ph.D., Carnegie Mellon. Accounting.
Catherine Shenoy. Assistant Professor: Ph.D., Univ. of Kansas. Finance.
Prakash P. Shenoy. Ronald G. Harper Distinguished Professor: Ph.D., Cornell. Decision sciences.
Surendra Singh. SWB Chair of Business & Dir., Doctoral Programs: Ph.D., Wisconsin (Madison). Marketing.
Kevin Smith. Assistant Professor: Ph.D., Univ. of Arizona. Accounting.
Daniel G. Spencer. Associate Professor: Ph.D., Oregon. Organizational Behavior.
Rajendra Srivastava. Ernst & Young Distinguished Professor & Dir., Ernst & Young Center for Auditing Research & Advanced Technology: Ph.D., Oklahoma. Accounting.
Rama Subramaniam. Assistant Professor: Ph.D., Univ. of Arizona. Marketing
Laura Tuttle. Assistant Professor: Ph.D., Ohio State Univ. Finance.
Feirong Yuan. Assistant Professor: Ph.D., Texas A&M Univ. Organizational Behavior.
James F. Waegelein. Associate Professor: Ph.D., Pennsylvania State. Information Systems.
Douglas F. Whitman. Professor: J.D., Missouri; M.B.A., Univ. of Kansas. Business Law.
Terry Zhao. Assistant Professor: Ph.D., Univ. of California at Irvine. Marketing.
Zheng (Jane) Zhao. Assistant Professor: Ph.D., Univ. of Michigan. Strategic Management.

Retired Members of the Faculty

Howard Baumgartel. Professor, Ph.D.
 Kenneth Cogger. Professor, Ph.D.
 Gordon Fitch, Professor, Ph.D.
 John Garland, Associate Professor, Ph.D.
 Jack E. Gaumnitz. Professor, Ph.D.
 Arno F. Knapper. Professor, Ph.D.
 L. Martin Jones. Assistant Professor, Budget Officer-KU, M.B.A.
 O. Maurice Joy, Distinguished Professor Emeritus, Ph.D.
 Jerry Lewis, Professor, Ph.D.
 J. Hammond McNish. Adjunct Professor, LL.B.
 Wiley S. Mitchell. Professor, M.S., C.P.A.
 Anthony L. Redwood. Professor, Ph.D.
 Lawrence A. Sherr. Chancellor's Club Teaching Professor Emeritus, Ph.D.
 Arthur L. Thomas. Arthur Young Distinguished Professor Emeritus, Ph.D.
 Chester B. Vanatta. Distinguished Lecturer Emeritus, M.S.
 Beverley Wilson. Assistant Professor, Ph.D.
 W. Keith Weltmer. University Professor Emeritus, J.D., M.B.A.

School of Education

Administration

Rick Ginsberg, Ph.D., Dean
 Sally L. Roberts, Ph.D., Associate Dean for Teacher Education,
 Undergraduate Programs, & Partnerships
 Jim Lichtenberg, Ph.D., Associate Dean for Graduate Programs &
 Research
 Mike Neal, Ed.D., Assistant Dean for Student Services

Faculty

Cynthia G. Akagi. Assistant Professor of Health, Sport, & Exercise Sciences: Ph.D., Univ. of Kansas, 2001.
Ronald Aust. Associate Professor of Educational Leadership & Policy Studies: Ph.D., Washington, 1984.
Jerry D. Bailey. Associate Professor of Educational Leadership & Policy Studies; Dir., Inst. for Research & Public Service: Ed.D., Univ. of Tennessee, 1975.
Bruce Baker. Associate Professor of Educational Leadership & Policy Studies: Ed.D., Columbia, 1997.
Arlene Barry. Associate Professor of Curriculum & Teaching: Ph.D., Univ. of Wisconsin (Madison), 1992.
Barbara Bradley. Assistant Professor of Curriculum & Teaching: Ph.D., Univ. of Georgia, 2004.
W. David Carr. Associate Professor & Program Dir. of Athletic Training, Health, Sport, & Exercise Sciences: Ph.D., Southern Mississippi, 1999.
Jerry D. Chaffin. Professor of Special Education: Ed.D., Univ. of Kansas, 1967.
Gary M. Clark. Professor of Special Education: Ed.D., George Peabody College for Teachers, Vanderbilt Univ., 1967.
George Jacoby Crawford. Associate Professor of Curriculum & Teaching: Ph.D., Ohio State, 1972.
Donald D. Deshler. Professor of Special Education; Dir., Ctr. for Research on Learning: Ph.D., Univ. of Arizona, 1974.
John W. Eagle. Assistant Professor of Psychology & Research in Education: Ph.D., Univ. of Nebraska (Lincoln), 2005.
Howard H. Ebmeier. Associate Professor of Educational Leadership & Policy Studies: Ph.D., Univ. of Missouri, 1978.
Jim Ellis. Associate Professor of Curriculum & Teaching: Ph.D., Univ. of Kansas, 1979.
Robert E. Frederick. Assistant Professor & Interim Chair of Health, Sport, & Exercise Sciences: Ed.D., Univ. of Kansas, 1984.
Bruce B. Frey. Assistant Professor of Psychology & Research in Education: Ph.D., Univ. of Kansas, 1994.
Reva Friedman-Nimz. Associate Professor of Curriculum & Teaching: Ph.D., Univ. of Connecticut (Storrs), 1978.
Phil Gallagher. Assistant Professor of Health, Sport, & Exercise Sciences: Ph.D., Ball State, 2000.
Sandra W. Gault. Associate Professor of Special Education; Assistant Provost: Ph.D., Univ. of Missouri (Columbia), 1977.
A. Susan Gay. Associate Professor of Curriculum & Teaching & of Mathematics: Ed.D., Oklahoma State, 1990.
Douglas R. Glasnapp. Research Professor of Psychology & Research in Education; Codirector, Ctr. for Educational Testing & Evaluation: Ph.D., George Peabody College, 1970.
Manuela Gonzalez-Bueno. Associate Professor of Curriculum & Teaching: Ph.D., Pennsylvania State, 1994.
Jerry L. Greene. Associate Professor of Health, Sport, & Exercise Sciences: Ph.D., Utah, 1973.
Robert Gregory. Assistant Professor of Health, Sport, & Exercise Sciences: Ph.D., Pennsylvania State, 2002.
Mary Lynn Hamilton. Associate Professor of Curriculum & Teaching: Ph.D., Univ. of Arizona, 1989.
Robert G. Harrington. Professor of Psychology & Research in Education: Ph.D., Univ. of Iowa, 1980.
Jim Hillesheim. Professor of Educational Leadership & Policy Studies: Ed.D., Southern California, 1967.
Robert L. Hohn. Professor of Psychology & Research in Education: Ph.D., Michigan State, 1968.
Eva Horn. Professor of Special Education: Ph.D., Vanderbilt, 1988.
Douglas Huffman. Associate Professor of Curriculum & Teaching: Ph.D., Univ. of Minnesota, 1994.
Michael Imber. Professor of Educational Leadership & Policy Studies: Ph.D., Stanford, 1980.
Karen Jorgensen. Assistant Professor of Curriculum & Teaching: Ph.D., Univ. of Minnesota (Twin Cities), 2005.
Barbara A. Kerr. Distinguished Professor of Counseling, Psychology & Research in Education: Ph.D., Univ. of Missouri, 1978.
Susan E. King. Associate Professor of Health, Sport, & Exercise Sciences: Ed.D., Columbia, 1992.
F. Bernie Kish. Lecturer & Dir. of Facilities, Health, Sport, & Exercise Sciences: Ph.D., Univ. of Kansas, 1998.
H. Earle Knowlton. Associate Professor of Special Education: Ed.D., Univ. of Kentucky, 1978.
Thomas Krieshok. Professor of Psychology & Research in Education: Ph.D., Univ. of Missouri (Columbia), 1982.

James D. LaPoint. Associate Professor of Health, Sport, & Exercise Sciences: Ph.D., Toledo, 1972.
Steven W. Lee. Associate Professor of Psychology & Research in Education: Ph.D., Univ. of Nebraska, 1986.
B. Keith Lenz. Associate Professor of Special Education; Research Scientist & Dir., Inst. for Effective Instruction, Ctr. for Research on Learning: Ph.D., Univ. of Kansas, 1982.
James W. Lichtenberg. Professor of Psychology & Research in Education & Associate Dean for Graduate Programs & Research: Ph.D., Univ. of Minnesota, 1974.
Shane J. Lopez. Associate Professor of Psychology & Research in Education: Ph.D., Univ. of Kansas, 1998.
George Lottes. Instructor, Dir., Aquatics, Health, Sport, & Exercise Sciences: M.Ed., Univ. of Missouri, 1973.
Patricia Lowe. Assistant Professor of Psychology & Research in Education: Ph.D., Texas A&M, 2000.
Donita Massengill. Assistant Professor of Curriculum & Teaching: Ph.D., Univ. of Kansas, 2002.
Diane K. McDermott. Associate Professor of Psychology & Research in Education: Ph.D., Univ. of Wisconsin, 1968.
Philip C. McKnight. Professor of Curriculum & Teaching: Ph.D., Stanford, 1969.
Marc Mahlios. Professor & Chair of Curriculum & Teaching: Ph.D., Arizona State, 1978.
Paul Leon Markham. Associate Professor of Curriculum & Teaching: Ph.D., Ohio State, 1984.
Edward L. Meyen. Professor of Special Education: Ph.D., Iowa, 1968.
Mary E. Morningstar. Associate Professor of Special Education, Ph.D., Univ. of Kansas, 1995.
Karen D. Multon. Professor & Chair of Psychology & Research in Education: Ph.D., Loyola Univ., 1990.
Brenda Smith Myles. Associate Professor of Special Education: Ph.D., Univ. of Kansas, 1989.
Jennifer Ng. Assistant Professor of Educational Leadership & Policy Studies: Ph.D., Univ. of Illinois, 2004.
Diane Corcoran Nielsen. Associate Professor of Curriculum & Teaching: Ph.D., Univ. of Minnesota, 1990.
Joseph E. O'Brien. Associate Professor of Curriculum & Teaching: Ed.D., Univ. of Virginia, 1991.
Kristin Koetting O'Byrne. Assistant Professor of Psychology & Research in Education: Ph.D., Univ. of Missouri (Kansas City), 2003.
Lizette Peter. Assistant Professor of Curriculum & Teaching: Ph.D., Univ. of Kansas, 2003.
Nancy Peterson. Professor of Special Education: Ph.D., Brigham Young, 1969.
Barbara J. Phipps. Associate Professor of Curriculum & Teaching; Dir., Ctr. for Economic Education: Ph.D., Kansas State, 1986.
John P. Poggio. Professor of Psychology & Research in Education; Codirector, Ctr. for Educational Testing & Evaluation: Ph.D., Boston College, 1972.
Suzanne Rice. Associate Professor of Curriculum & Teaching: Ph.D., Univ. of Illinois, 1993.
Sally Roberts. Associate Professor of Special Education & Associate Dean for Academic Programs: Ph.D., Univ. of Kansas, 1992.
Suzanne Robinson. Associate Professor of Special Education: Ph.D., Univ. of New Mexico, 1983.
Fred Rodriguez. Associate Professor of Curriculum & Teaching: Ed.D., Univ. of Nebraska, 1978.
John L. Rury. Professor, Educational Leadership & Policy Studies: Ph.D., Univ. of Wisconsin, 1982.
Wayne Sailor. Professor of Special Education; Assoc. Dir., Beach Ctr. on Disability: Ph.D., Univ. of Kansas, 1969.
Neil J. Salkind. Professor of Psychology & Research in Education: Ph.D., Univ. of Maryland, 1973.
Richard L. Simpson. Professor of Special Education: Ed.D., Univ. of Kansas, 1973.
Thomas M. Skrtic. Professor of Special Education: Ph.D., Univ. of Iowa, 1976.
Sean Smith. Associate Professor of Special Education: Ph.D., Univ. of Virginia, 1997.
Sherie Surbaugh. Courtesy Assistant Professor of Curriculum & Teaching; Assoc. Dir., Ctr. for Economic Education: Ed.D., Drake, 1993.
L. Keith Tennant. Professor of Health, Sport, & Exercise Sciences: Ph.D., Florida State, 1985.
Laurie Tennant. Lecturer in Health, Sport, & Exercise Sciences: Ph.D., Univ. of Florida, 1994.
Keili R. Thomas. Assistant Professor of Curriculum & Teaching: Ph.D., Univ. of Kansas, 2001.
Barbara Thompson. Associate Professor of Special Education: Ph.D., Univ. of Kansas, 1982.
Mark Thompson. Assistant Professor of Health, Sport, & Exercise Sciences: Ph.D., Univ. of Kansas, 1991.
Andy Tompkins. Associate Professor of Educational Leadership & Policy Studies: Ed.D., Univ. of Kansas, 1977.
Ann P. Turnbull. Professor of Special Education: Ed.D., Alabama, 1972.

KU's teacher education program, which began in 1981-82, has been recognized nationally as providing superior, innovative professional preparation for teachers.

KU researchers in the Kansas Applied Remote Sensing Program use satellite data to predict the success of crops in the state, issuing "green reports" that make biweekly, annual, and 10-year comparisons.

H. Rutherford Turnbull III. Professor of Special Education: LL.M., Harvard Law School, 1969.
Susan Twombly. Professor & Chair of Educational Leadership & Policy Studies: Ph.D., Pennsylvania State, 1985.
J. Phill Vardiman. Lecturer & Clinical Coordinator of Athletic Training, Health, Sport, & Exercise Sciences: M.S., Oklahoma State, 1998.
Christine Walther-Thomas. Professor & Chair of Special Education: Ph.D., Univ. of Kansas 1990.
Richard Washburn. Associate Professor of Health, Sport, & Exercise Sciences: Ph.D., Univ. of Wisconsin (Madison), 1981.
Michael Wehmeyer. Professor of Special Education; Dir., Kansas Univ. Ctr. on Developmental Disabilities: Ph.D., Texas (Dallas), 1989.
Greg W. Welch. Assistant Professor of Psychology & Research in Education: Ph.D., Univ. of Pittsburgh, 2006.
Steve White. Associate Professor of Curriculum & Teaching: Ph.D., Texas A&M, 1994.
Lisa Wolf-Wendel. Professor of Educational Leadership & Policy Studies: Ph.D., Claremont Graduate School, 1995.
Carole Zebas. Professor of Health, Sport, & Exercise Sciences: P.E.D., Indiana, 1974.

Retired Members of the Faculty

Matthew Adeyanju. Associate Professor, Ph.D.
 Marguerite K. Baumgartel. Associate Professor, Ed.D.
 Sherry Ann Borgers. Professor, Ed.D.
 Novy Bowman. Assistant Professor, Ed.D.
 John Bushman. Professor, Ph.D.
 LeRon R. Capps. Professor, Ph.D.
 Thomas Erb. Professor, Ph.D.
 Marvin Fine. Professor, Ph.D.
 Patricia A. Gallagher. Professor, Ed.D.
 Phillip Douglas Guess. Professor, Ed.D.
 Emerson L. Hazlett. Director, Ph.D.
 Edward J. Heck. Professor, Ph.D.
 George Herbert Hughes. Associate Professor, Ed.D.
 N. Ray Hiner. Chancellors Club Teaching Professor, Ph.D.
 Phillip G. Huntsinger. Associate Professor, Ed.D.
 Jerry E. Hutchison. Associate Professor, Ph.D.
 E. Peter Johnsen. Professor, Ed.D.
 William S. LaShier Jr. Professor, Ph.D.
 Ogden R. Lindsley. Professor, Ph.D.
 Robert Lockwood. Instructor, M.S.E.
 Mary Ross Moran. Professor, Ph.D.
 Loda Newcomb. Assistant Professor, M.S.
 Ruth M. Noyce. Professor, Ph.D.
 Wayne H. Osness. Professor, Ph.D.
 Gary E. Price. Professor, Ph.D.
 Donald C. Richardson. Associate Professor, Ed.D.
 Robert William Ridgway. Professor, Ed.D.
 Phil H. Rueschhoff. Professor, Ed.D.
 Richard Rundquist. Professor, Ed.D.
 Alvin H. Schild. Professor, Ph.D.
 Nita Sundbye Sewell. Professor, Ed.D.
 Elizabeth Sherbon. Professor, M.S.
 George Baxter Smith. Professor, Ph.D.
 Joie Stapleton. Professor, Ed.D.
 M. Evelyn Swartz. Professor, Ed.D.
 Bernard Taylor. Instructor, M.S.
 Dick B. Tracy. Associate Professor, Ph.D.
 Richard J. Whelan. Ralph L. Smith Distinguished Professor, Ed.D.
 Flora Wyatt. Assistant Professor, M.S.

School of Engineering

Administration

Stuart R. Bell, Ph.D., Dean
 Robert M. Sorem, Ph.D., Associate Dean
 Glen A. Marotz, Ph.D., Associate Dean

Faculty

Arvin Agah. Associate Professor of Electrical Engineering & Computer Science: Ph.D., Southern California, 1994.
Perry Alexander. Professor of Electrical Engineering & Computer Science: Ph.D., Kansas, 1992.
Chris Allen. Professor of Electrical Engineering & Computer Science: Ph.D., Kansas, 1984.
David Andrews. Professor of Electrical Engineering & Computer Science: Ph.D., Syracuse Univ., 1992.
Yong Bai. Assistant Professor of Civil, Environmental, & Architectural Engineering: Ph.D., North Carolina State, 1996.
Ron Barrett-Gonzales. Associate Professor of Aerospace Engineering: Ph.D., Kansas, 1993.
Stuart R. Bell. Professor of Mechanical Engineering, Dean of Engineering: Ph.D., Texas A & M, 1986.

Caroline R. Bennett. Assistant Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Univ. of Cincinnati, 2005.
Cory Berkland. Assistant Professor of Chemical & Petroleum Engineering, Ph.D., Illinois (Urbana), 2003.
Shannon Blunt. Assistant Professor of Electrical Engineering & Computer Science: Ph.D., Missouri, 2002.
Frank Brown. Associate Professor of Electrical Engineering & Computer Science: Ph.D., Univ. of Edinburgh, Scotland, 1978.
JoAnn Browning. Associate Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Purdue, 1998.
Louis C. Burmeister. Professor of Mechanical Engineering: Ph.D., Purdue, 1966.
Kyle V. Camarda. Professor of Chemical & Petroleum Engineering: Ph.D., Illinois, 1997.
Swapan Chakrabarti. Associate Professor of Electrical Engineering & Computer Science: Ph.D., Nebraska, 1986.
Xue Wen Chen. Assistant Professor of Electrical Engineering & Computer Science: Ph.D., Carnegie Mellon, 2001.
Wai Chong. Assistant Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Univ. of Texas, 2005.
Terry Clark. Assistant Professor of Electrical Engineering & Computer Science: Ph.D., Univ. of Houston, 1996.
Richard D. Colgren. Associate Professor of Aerospace Engineering: Ph.D., Southern California, 1993.
David Darwin. Deane E. Ackers Distinguished Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Illinois, 1974.
Kenneth R. Demarest. Professor of Electrical Engineering & Computer Science: Ph.D., Ohio State, 1980.
Michael Detamore. Assistant Professor of Chemical & Petroleum Engineering: Ph.D., Rice, 2004.
Ronald L. Dougherty. Professor & Chair of Mechanical Engineering: Ph.D., Missouri (Rolla), 1978.
David R. Downing. Professor of Aerospace Engineering: Sc.D., MIT, 1970.
Joseph B. Evans. Deane E. Ackers Distinguished Professor of Electrical Engineering & Computer Science: Ph.D., Princeton, 1989.
Mark Ewing. Associate Professor & Chair of Aerospace Engineering: Ph.D., Ohio State, 1983.
Terry N. Faddis. Professor of Mechanical Engineering: D.E., Kansas, 1972.
Saeed Farokhi. Professor of Aerospace Engineering: Ph.D., MIT, 1981.
Kenneth J. Fischer. Associate Professor of Mechanical Engineering: Ph.D., Stanford, 1995.
Elizabeth A. Friis. Assistant Professor of Mechanical Engineering: Ph.D., Wichita State, 1994.
Victor S. Frost. Dan F. Servey Distinguished Professor of Electrical Engineering & Computer Science: Ph.D., Kansas, 1982.
Susan E. Gauch. Professor of Electrical Engineering & Computer Science: Ph.D., North Carolina, 1990.
John M. Gauch. Associate Professor of Electrical Engineering & Computer Science: Ph.D., North Carolina, 1989.
Stevin H. Gehrke. Professor of Chemical & Petroleum Engineering, Courtesy Professor of Pharmaceutical Chemistry: Ph.D., Minnesota, 1986.
Thomas E. Glavinich. Associate Professor of Civil, Environmental, & Architectural Engineering: D.E., Kansas, 1990.
Siva Prasad Gogineni. Deane E. Ackers Distinguished Professor of Electrical Engineering & Computer Science: Ph.D., Kansas, 1985.
David W. Graham. Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Arizona, 1992.
Don W. Green. Deane E. Ackers Distinguished Professor of Chemical & Petroleum Engineering & Codirector, Tertiary Oil Recovery Project: Ph.D., Oklahoma, 1963.
Jerzy W. Grzymala-Busse. Professor of Electrical Engineering & Computer Science: Ph.D., Technical Univ. of Poznan, Poland, 1969.
Javier Guzman. Assistant Professor of Chemical & Petroleum Engineering: Ph.D., Univ. of California (Davis), 2003.
Richard Hale. Associate Professor of Aerospace Engineering: Ph.D., Iowa State, 1995.
Jie Han. Associate Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Georgia Tech, 1997.
Donna Haverkamp. Assistant Professor of Electrical Engineering & Computer Science: Ph.D., Kansas, 1997.
Colin S. Howat III. Professor of Chemical & Petroleum Engineering: Ph.D., Kansas, 1983.
Rongqing Hul. Associate Professor of Electrical Engineering & Computer Science: Ph.D., Politecnico di Torino, Italy, 1993.
Sarah L. Kieweg. Assistant Professor of Mechanical Engineering: Ph.D., Duke, 2005.
Nancy Kinnersley. Associate Professor of Electrical Engineering & Computer Science: Ph.D., Washington State Univ., 1989.
Man C. Kong. Associate Professor of Electrical Engineering & Computer Science: Ph.D., Nebraska, 1986.
Carl E. Kurt. Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Oklahoma State, 1968.
Chuan-Tau Edward Lan. J. L. Constant Distinguished Professor of Aerospace Engineering: Ph.D., New York Univ., 1968.
Dennis D. Lane. N.T. Veatch Distinguished Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Illinois, 1976.

**KU fine arts
faculty members
have performed
at the Kennedy
Center, the
Lincoln Center for
the Performing
Arts, and
Carnegie Hall.**

**Fine arts faculty
members have
served as judges
for international
piano competi-
tions, including
the Tchaikovsky
Competition in
Moscow, the
Chopin
Competition in
Warsaw, and the
Van Cliburn
Competition in
Fort Worth, Texas.**

Jennifer Laurence. Assistant Professor of Chemical & Petroleum Engineering: Ph.D., Purdue, 2000.

Jenn-Tai Liang. Associate Professor of Chemical & Petroleum Engineering: Ph.D., Univ. of Texas (Austin), 1988.

Carl Luchies. Associate Professor of Mechanical Engineering: Ph.D., Michigan, 1991.

Lorin P. Maletsky. Assistant Professor of Mechanical Engineering: Ph.D., Purdue 1999.

Glen A. Marotz. Professor of Civil, Environmental, & Architectural Engineering, Associate Dean of Engineering: Ph.D., Illinois, 1971.

Adolpho Matamoros. Associate Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Illinois, 1999.

Steven L. McCabe. Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Univ. of Illinois, 1987.

Bruce M. McEnroe. Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Kansas, 1983.

Mario Medina. Associate Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Texas A&M, 1992.

James R. Miller. Associate Professor of Electrical Engineering & Computer Science: Ph.D., Purdue, 1979.

Gary J. Minden. Professor of Electrical Engineering & Computer Science: Ph.D., Kansas, 1982.

Thomas E. Mulinazzi. Professor & Chair of Civil, Environmental, & Architectural Engineering: Ph.D., Purdue, 1973.

Douglas Niehaus. Associate Professor of Electrical Engineering & Computer Science: Ph.D., Massachusetts, 1994.

Trung Nguyen. Professor of Chemical & Petroleum Engineering: Ph.D., Texas A&M, 1988.

Karen J. Nordheden. Associate Professor of Chemical & Petroleum Engineering: Ph.D., Illinois, 1988.

Russell D. Ostermann. Associate Professor of Chemical & Petroleum Engineering: Ph.D., Kansas, 1980.

Alfred D. Parr. Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Iowa, 1976.

Robert Parsons. Associate Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Georgia Inst. of Technology, 1998.

Edward Peltier. Assistant Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Northwestern, 2002.

Erik Perrins. Assistant Professor of Electrical Engineering & Computer Science: Ph.D., Brigham Young, 2005.

David W. Petr. Professor of Electrical Engineering & Computer Science: Ph.D., Kansas, 1990.

Glenn E. Prescott. Professor of Electrical Engineering & Computer Science: Ph.D., Georgia Inst. of Technology, 1984.

Stephen J. Randtke. Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Stanford, 1977.

James A. Roberts. Professor of Electrical Engineering & Computer Science, Vice Provost for Research: Ph.D., Santa Clara, 1979.

Brian A. Rock. Associate Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Colorado, 1992.

Stanley T. Rolfe. Albert P. Learned Distinguished Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Illinois, 1962.

Albert Romkes. Assistant Professor of Mechanical Engineering: Ph.D., Univ. of Texas, 2003.

James R. Rowland. Professor of Electrical Engineering & Computer Science: Ph.D., Purdue, 1966.

Hossein Saedian. Professor of Electrical Engineering & Computer Science: Ph.D., Kansas State, 1989.

Aaron Scurto. Assistant Professor of Chemical & Petroleum Engineering, Ph.D., Notre Dame, 2002.

K. Sam Shanmugan. SBC Distinguished Professor of Electrical Engineering & Computer Science: Ph.D., Oklahoma State, 1970.

Robert M. Sorem. Associate Professor of Mechanical Engineering, Associate Dean of Engineering: Ph.D., Kansas, 1991.

Trevor C. Sorensen. Associate Professor of Aerospace Engineering: D.E., Kansas, 1979.

Marylee Z. Southard. Associate Professor of Chemical & Petroleum Engineering: Ph.D., Kansas, 1989.

James Sterbenz. Associate Professor of Electrical Engineering & Computer Science: D.Sc., Washington Univ. (St. Louis), 1991.

James Stiles. John & Winifred Sharp Teaching Associate Professor of Electrical Engineering & Computer Science: Ph.D., Michigan, 1995.

Bala Subramaniam. Dan F. Servey Distinguished Professor of Chemical & Petroleum Engineering: Ph.D., Notre Dame, 1984.

Karan S. Surana. Deane E. Ackers Distinguished Professor of Mechanical Engineering: Ph.D., Wisconsin, 1970.

Ray Taghavi. Associate Professor of Aerospace Engineering: Ph.D., Kansas, 1988.

Peter Ten Pas. John & Winifred Sharp Teaching Associate Professor of Mechanical Engineering: Ph.D., Iowa, 1988.

Francis M. Thomas. Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Illinois, 1969.

Constantinos Tsatsoulis. Professor & Chair of Electrical Engineering & Computer Science: Ph.D., Purdue, 1987.

Herbert Tuttle. Assistant Professor of Engineering Management: M.S., Tennessee, 1992.

Robert C. Umholtz. Associate Professor of Mechanical Engineering: M.S., Kansas, 1956.

Shapour Vossoughi. Professor of Chemical & Petroleum Engineering: Ph.D., Alberta, Canada, 1976.

Weichao Wang. Assistant Professor of Electrical Engineering & Computer Science: Ph.D., Purdue, 2005.

Laurence R. Weatherley. Professor & Chair of Chemical & Petroleum Engineering: Ph.D., Cambridge, 1974.

G. Paul Willhite. Ross H. Forney Distinguished Professor of Chemical & Petroleum Engineering; Codirector, Tertiary Oil Recovery Project: Ph.D., Northwestern, 1962.

Susan M. Williams. Associate Professor of Chemical & Petroleum Engineering: Ph.D., Oklahoma, 1999.

Sara E. Wilson. Assistant Professor of Mechanical Engineering: Ph.D., MIT 1999.

Bedru Yimer. Professor of Mechanical Engineering: Ph.D., Dayton, 1979.

C. Bryan Young. Associate Professor of Civil, Environmental, & Architectural Engineering: Ph.D., Iowa, 2000.

Robert P. Zerwekh. Professor of Engineering Management: Ph.D., Iowa State, 1970.

Ya Zhang. Assistant Professor of Electrical Engineering & Computer Science: Ph.D., Pennsylvania State, 2005.

Retired Members of the Faculty

Allen Ambler, Professor
Ernest E. Angino, Professor
B.G. Barr, Professor
Maynard P. Bauleke, Professor
Kenneth A. Bishop, Professor
Carl Burkhead, Professor
Don G. Daugherty, Professor
Raymond Dean, Professor
Harvey K. Doemland, Associate Professor
William Douglas Jr. Associate Professor
John T. Easley, Professor
George W. Forman, Professor
Donald A. Gyorog, Professor
Julian Holtzman, Professor
David C. Kraft, Professor
Joe Lee, Professor
Carl E. Locke Jr., Professor & Dean Emeritus
W. Max Lucas, Professor
Ross McKinney, N.T. Veatch Distinguished Professor Emeritus of Civil Engineering
James O. Maloney, Professor
Russell B. Mesler, Warren S. Bellows Distinguished Professor Emeritus of Chemical & Petroleum Engineering
Richard K. Moore, Black & Veatch Distinguished Professor Emeritus of Electrical Engineering & Computer Science
Vincent Muirhead, Professor
Ernest C. Pogge, Professor
Floyd W. Preston, Professor
Charles D. Reese, Professor
Jan Roskam, Deane E. Ackers Distinguished Professor Emeritus of Aerospace Engineering
Harold F. Rosson, Professor & Associate Dean Emeritus
Dale I. Rummer, Professor
Earl J. Schweppe, Professor
George W. Swift, Deane E. Ackers Distinguished Professor Emeritus of Chemical & Petroleum Engineering
Harry E. Talley, Professor
Hillel Unz, Professor
Stanley M. Walas, Professor
Victor Wallace, Professor
Yun Sheng Yu, Professor

School of Fine Arts

Administration

Steven K. Hedden, Ph.D., Dean
Christopher M. Johnson, Ph.D., Associate Dean
Rita Riley, B.M.E., Director of Undergraduate Studies
Sara Muzzy, M.F.A., Coordinator for Foundations
Dina P. Evans, D.M.A., Coordinator of Career Services

Faculty

Note: For faculty of History of Art, see Liberal Arts & Sciences list.

Elissa Armstrong. Assistant Professor of Ceramics: B.F.A. Nova Scotia College of Art & Design, 2000; M.F.A. Alfred Univ., 2002.

Jane Asbury. Associate Professor of Art: B.F.A. (Sculpture), Indiana, 1968; M.F.A. (Printmaking), Indiana, 1971. Inst., Berea College, 1971-73.

James Charles Barnes. Professor: B.M., Kansas, 1974; M.M., Kansas, 1975.

- Michael Bauer.** Associate Professor of Organ: B.M., M.M. (Church Music), Alabama, 1978, 1981; Certificat de Perfectionnement, Conservatoire de Musique, Geneva, Switzerland, 1985; D.M.A., Cincinnati, 1986; Masters in Theological Studies, Perkins School of Theology, Southern Methodist.
- Elizabeth Berghout.** Assistant Professor of Carillon & Organ & University Carillonneur: B.M., Brigham Young Univ., 1994; M.M., D.M.A., Univ. of Kansas, 1997, 2000.
- Phillip Blackhurst.** Associate Professor of Art: B.S., Michigan, 1964; M.A., San Francisco State Univ., 1967. Asst. Inst., San Francisco State Univ., 1967; Inst., California (San Francisco Extension), 1967-68; Inst., California State (Hayward), 1969.
- Kevin Bobo.** Assistant Professor of Percussion: B.M., Wichita State Univ., 1997; M.M., Ithaca College, 1999.
- Ruth Bowman.** Assistant Professor of Design: B.F.A., Cleveland Inst. of Art, 1974; M.F.A., Univ. of Kansas, 1982.
- David Brackett.** Assistant Professor of Design: B.S. Zoology, Univ. of Michigan, 1977; M.F.A. Textiles, Kansas, 1990.
- Richard L. Branham.** Professor of Design: B.F.A., M.F.A., Kansas, 1962, 1964; M.S., Inst. of Design, Illinois Inst. of Tech., 1969.
- Julia Broxholm.** Assistant Professor of Voice: B.M., M.M., D.M.A., Univ. of Michigan, 1977, 1979, 2001.
- Matthew B. Burke.** Assistant Professor of Art: B.S., Colby College, 1989; M.F.A., Queens College, CUNY, 1995.
- M. David Bushouse.** Professor of Music: B.M., M.M., Michigan, 1965, 1966. Inst. in Music, Morehead State Univ., 1966-69.
- Carol Ann Carter.** Professor of Art: B.F.A., Herron School of Art, Indiana Univ., 1970; M.F.A., Univ. of Notre Dame, 1974. Ford Foundation Postdoctoral for Minorities, 1986; Univ. of Michigan Kings-Parks-Chavez Visiting Prof., 1987; Ford Fellow in Residence, Pennsylvania State Univ., 1987-88; J.W. Fulbright Fellowship, 1994; Langston Hughes Visiting Prof., Univ. of Kansas, 1995.
- Joyce Castle.** Professor of Voice: B.F.A., Univ. of Kansas, 1961; M.M., Eastman School of Music, 1966.
- Peter Chun.** Assistant Professor of Viola: B.M., M.M., D.M.A., New England Conservatory of Music, 1993, 1995, 1999.
- Alicia Clair.** Professor of Music Education & Music Therapy: Ph.D., Univ. of Kansas, 1979.
- Muriel Cohan.** Associate Professor of Dance: B.A. (English), 1981. Inst. in Dance, Arizona State Univ., 1983; Inst. in Dance, Utah, 1984-85; Inst. in Dance, Stephens College, 1986-88; Inst. in Dance, Washington (St. Louis), 1988-89.
- Cynthia Colwell.** Assistant Professor of Music Education & Music Therapy: B.M.E. Acadia Univ. in Wolfville, Nova Scotia, 1986; M.M.T., Florida State Univ., 1988; Ph.D. Louisiana State Univ., 1993.
- Jose Sequeira Costa.** Cordelia B. Murphy Distinguished Professor of Piano: Maximum degree, Conservatoire of Lisbon, 1946; study with Vianna da Motta; study with Jacques Fevrier & Marguerite Long, Paris, & Edwin Fischer, Luzern; Diploma of Meister Class with Edwin Fischer, 1951; Virtuoso class diploma, Marguerite Long International Class, 1951; member of juries for international competitions, including Tchaikovsky Competition in Moscow, Chopin in Warsaw, & Mozart in Salzburg, others in Paris & Lisbon, 1957, 1958, 1960, 1961, 1964, 1966. Performances with all major orchestras of Europe & Brazil.
- Matthew Burke.** Assistant Professor of Art: B.A., Colby College, Maine, 1989; M.F.A., Queens College, CUNY, 1995.
- James F. Daugherty.** Associate Professor of Choral Music Education: B.A., Maryville College, 1970; M.Ed., Univ. of Virginia, 1973; M.Div., Union Theological Seminary, NY, 1976; M.A., Columbia Univ., 1978; Ph.D., Florida State Univ., 1996.
- Richard W. Dishinger.** Associate Professor of Art: B.F.A., Kansas, 1966; M.A., New Mexico, 1968.
- Patrick Dooley.** Associate Professor of Design: B.F.A., M.F.A., Univ. of Iowa, 1975, 1978; Fulbright Senior Scholar (Germany) 2003.
- George Louis Duerksen.** Professor of Music Education & Music Therapy: Ph.D., Univ. of Kansas, 1967.
- Michael Dean Eckersley.** Professor of Design: M.F.A., Washington Univ. (St. Louis), 1980; Ed.D., Ball State Univ., 1985; Principal, Human Centered, Ltd., 2001 to present.
- David Fedele.** Assistant Professor of Flute: B.M., Curtis Inst. of Music, 1987; M.M., Juilliard School, 1989.
- Mark Ferrell.** Associate Professor, Coach/Accompanist; Dir., Opera: B.M., Wheaton, 1977; M.M., Illinois, 1979.
- Barry Fitzgerald.** Associate Professor of Design: A.F.A., Niagara Co. Comm. College, 1982; B.S., State College at Buffalo, New York, 1984; M.F.A., State Univ. of New York (Buffalo), 1990.
- Robert E. Foster.** Professor: B.M.E., Texas, 1962; M.Ed., Houston, 1964. Inst., Florida, 1964-65; Asst. Prof., Florida, 1965-70; Assoc. Prof., Florida, 1970-71.
- Daniel J. Gailey.** Associate Professor; Dir., Jazz Studies: B.M., Pacific Lutheran, 1985; M.M., Univ. of Northern Colorado, 1994.
- Vincent Gnojek.** Professor of Saxophone: B.M.E., Colorado, 1973; M.A., Hunter College, 1980. Inst. in Saxophone, Colorado, 1985-88.
- Lois E. Greene.** Professor of Design: B.F.A., M.F.A., Kansas, 1965, 1970.
- Kip Haahelm.** Assistant Professor of Music Theory & Composition: B.A., California State Univ., 1994; M.A., Univ. of Minnesota, 1996; D.M.A., Univ. of Arizona, 1999.
- John Hachmeister.** Associate Professor of Art: B.F.A., Univ. of Kansas, 1972; M.F.A. (sculpture), Kansas State Univ., 1985.
- James Michael Hall.** Assistant Professor of Trombone: B.M.E., Univ. of Wisconsin (Stevens Point), 1989; M.M., Univ. of Arizona, 1992; D.M.A., Univ. of Minnesota, 1998.
- Janet Hamburg.** Professor of Dance: B.S., SUNY (Buffalo), 1973; M.A., Mills College, 1976; C.M.A. Laban/Bartenieff Inst., N.Y., 1982; R.M.T. Int'l/Somatic Movement Education & Therapy, N.Y., 1999. Asst. Prof. of Dance, Lake Erie College, 1976-79.
- Sarah Hamilton.** Lecturer in Musicology: B.A. Kansas State Univ., 1992; M.M., New England Conservatory of Music, 1994; Ph.D., Kansas, 2003.
- Tanya Hartman.** Associate Professor of Art: B.F.A. (painting & printmaking), Rhode Island School of Design, 1987; M.F.A. (painting), Yale Univ. School of Art, 1994.
- Jon Havener.** Professor of Design: B.F.A., Cleveland Inst. of Art, 1973; M.F.A., Cranbrook Academy of Art, 1975.
- Debra (Gordon) Hedden.** Associate Professor of Music Education & Music Therapy: Ph.D., Univ. of Northern Iowa, 1997.
- Steven K. Hedden.** Professor of Music Education, Dean of Fine Arts: B.M.E., M.M.E., Ph.D., Kansas, 1964, 1969, 1971.
- Christopher Hepp.** Associate Professor of Piano: B.M., M.M., D.M.A., Colorado, 1977, 1979, 1986. Asst. Prof., Arkansas, 1983-84.
- Andrea Herstowski.** Assistant Professor of Design: B.F.A., Kansas, 1990; M.F.A., Schule fur Gestaltung Basel, Switzerland, 1995.
- James M. Higdon.** Dane & Polly Bales Teaching Professor of Organ: B.M., St. Olaf College, 1969; M.M., Northwestern, 1970; D.M.A., Eastman School of Music, 1977.
- Jerel Hilding.** Associate Professor of Dance: B.A., Louisiana State (New Orleans), 1971. Joffrey Ballet, 1975-1989.
- Charles K. Hoag.** Professor of Theory & Composition: B.M., Iowa, 1954; M.M., Redlands, 1955; Ph.D., Iowa, 1961. Asst. Prof., Sam Houston State College, 1962-63; Assoc. Prof., Oklahoma, 1963-68.
- Phillip Hofstra.** Associate Professor of Design: M.A. (Computer Resource Management), Webster, 1984.
- Mark L. Holmberg.** Associate Professor of Theory & Composition & Assistant Univ. Carillonneur: B.M., Augustana, 1960; S.M.M., Union Theological Seminary, 1962; Ph.D., Northwestern, 1974. Inst., Northwestern, 1970-71.
- Thomas Huang.** Assistant Professor of Design: B.A., Washington Univ. (St. Louis), 1994; M.F.A., Rhode Island School of Design, 2002.
- James G. Hudson.** Director of Athletic Bands: B.M.E., Northeast Missouri State Univ., 1980; M.M., Univ. of Nebraska (Lincoln), 1992.
- Earl H. Iversen.** Associate Professor of Design: B.A., Illinois, 1970; M.F.A., Rhode Island School of Design, 1973.
- Christopher M. Johnson.** Professor of Music Education & Music Therapy, Associate Dean of Fine Arts: Ph.D., Florida State Univ., 1992.
- John Paul Johnson.** Professor of Music; Dir., Choral Activities; Dir., Graduate Studies in Music: B.M., Westminster College, 1976; M.M., Univ. of Wisconsin, 1981; Professor, Texas State Univ. (San Marcos), 1987-2002.
- Luke Jordan.** Assistant Professor: M.F.A., Univ. of Michigan, 1983.
- Mary Anne Jordan.** Associate Professor of Design: B.F.A., Michigan, 1981; M.F.A., Cranbrook Academy of Art, 1985.
- Cima N. Katz.** Professor of Art: B.F.A., Carnegie-Mellon, 1971; M.F.A., Indiana, 1974.
- Linda Kemnitzer.** Lecturer in Design: B.F.A., Maryland Institute of Art, 1971; M.A., Michigan State Univ., 1975.
- Robert Koenig.** Assistant Professor of Piano: B.M., M.M., Curtis Inst. of Music.
- Elizabeth Kowalchuk.** Associate Professor of Visual Arts Education: B.F.A., Univ. of Georgia, 1979; M.F.A., Univ. of Illinois, 1982; Ph.D., Ohio State Univ., 1992.
- Michael Krueger.** Associate Professor of Art: B.F.A., Univ. of South Dakota (Vermillion), 1990; M.F.A. (Printmaking), Univ. of Notre Dame, 1993.
- Margie Kuhn.** Lecturer in Design: M.F.A., Kansas, 1999.
- Paul Laird.** Associate Professor of Musicology: B.M.E., M.A., Ohio State Univ., 1980, 1982; Ph.D., Univ. of North Carolina, 1986.
- Pok Chi Lau.** Associate Professor of Design: B.P.A., Brooks Inst. of Photography, 1975; M.F.A., California Inst. of the Arts, 1977.
- Edward A. Laut.** Professor of Cello: B.M., Indiana, 1966; M.M., Catholic, 1973. Cellist, Cleveland Orchestra, 1974-77.
- Stephen W. Leisring.** Assistant Professor of Trumpet: B.M.E., Univ. of North Texas, 1986; B.M. Univ. of North Texas, 1987; M.M., Mannes College of Music, 1989; Tenerife Symphony Orchestra, Canary Islands, Spain 1989-2003.
- William Lenoir.** Lecturer in Dance: B.S., Kansas, 1969; M.S., Nebraska (Lincoln), 1973.
- Gerald Lubensky.** Professor of Art: B.F.A., Rhode Island School of Design, 1967; M.A., New Mexico, 1969. Visiting Lecturer, Cleveland State Univ., 1969.
- John Lynch.** Associate Professor, Director of Bands: B.M.E., Indiana Univ., 1985; M.M., Eastman School of Music, 1990; D.M.A. (conducting), Cincinnati College Conservatory of Music, 1996.
- Lawrence Mallett.** Professor & Chair of Music & Dance: B.M., Univ. of Iowa, 1969; M.M., Ohio State Univ., 1971; D.M.A., Univ. of Iowa, 1981.
- Margaret Marco.** Assistant Professor of Oboe: B.M., Northwestern Univ., 1992; M.M.E., Univ. of Iowa, 1992; D.M.A., Univ. of Illinois, 1999.

“The School of Journalism and Mass Communications at the University of Kansas [is] considered by many to be a model for innovative curriculum revision.”
— Quill (the magazine of the Society of Professional Journalists)
July/August 2001.

Nine faculty members currently hold Chancellors Club Teaching Professorships.

Lawrence S. Maxey. Professor of Clarinet: B.M., Michigan State Univ., 1959; M.M., D.M.A., Eastman School of Music, 1960, 1968. Inst. in Woodwinds, East Texas State Univ., 1962-64; Inst. in Woodwinds, Baylor, 1964-66; Asst. Prof. of Clarinet, California State (Long Beach), 1968-69; Lecturer in Clarinet, Michigan State Univ., 1969-70.

Judith B. McCrea. Professor of Art: B.F.A., M.F.A., Wichita State Univ., 1967, 1970. Inst., Santa Reparata, Italy; Visiting Inst., Museo Contemporaneo, Asunción, Paraguay; Governor's Artist Award; Provost's Award for Leadership in International Education; AIR Gallery, NYC, 2003.

Deron McGee. Associate Professor of Music Theory: B.M., M.A., Univ. of Wyoming, 1987, 1989; Ph.D., Univ. of Wisconsin, 1993.

Genaro Mendez. Assistant Professor of Voice: B.M., Univ. of Nevada, 1991; M.M., Univ. of Illinois, 1997; D.M.A., Univ. of Oregon, 2001.

Scott Murphy. Assistant Professor of Music Theory & Composition: B.A., M.M. in Music Composition, M.M. in Music History, Univ. of Kansas, 1994, 1997, 1998.

Yoonmi Nam. Assistant Professor in Printmaking: B.F.A., Hongik Univ. in Seoul, Korea, 1997; M.F.A., Rhode Island School of Design, 2000.

Robert W. Price. Associate Professor of Art: B.F.A., Kansas, 1961; M.F.A., San Francisco Art Inst., 1965; Fulbright studies in Paris, 1965-66.

Lance Rake. Associate Professor of Design: B.F.A., Kansas, 1974; M.P.D., North Carolina State Univ., 1982. Asst. Prof., Industrial Design, Auburn, 1980-84; Course Supervisor, Dept. of Design, Carington Tech. Inst., Auckland, New Zealand, 1985-86.

Mahub Rashid. Associate Professor of Design: Ph.D., Georgia Inst. of Technology, 1998.

Richard Reber. Professor of Piano: B.M., M.M., Eastman School of Music, 1960, 1962; Fulbright scholar, Vienna, 1962-63.

Dena M. Register. Assistant Professor of Music Education & Music Therapy: Ph.D., Florida State Univ., 2003.

Laurence E. Rice. Lecturer in Double Bass: B.A., Univ. of California (Los Angeles), 1973; M.M., Univ. of Utah, 1978. Utah Symphony Orchestra, 1974-98.

Linda Samson-Talleur. Lecturer in Design: B.F.A. Kansas, 1975; M.F.A., Univ. of Alabama, 1986; Fulbright Scholar, Verona, 1986-87.

Ben Sayevich. Associate Professor of Violin: Study at Churlonis School for the Performing Arts, Vilna, U.S.S.R., 1966-71; Artist Diploma, New England Conservatory, 1986.

Roberta Schwartz. Assistant Professor of Musicology: B.M., M.A., Univ. of Iowa, 1990, 1993; Ph.D., Univ. of Illinois (Urbana-Champaign), 2001.

Lin Stanionis. Associate Professor of Design: B.A., Iowa State Univ., 1976; M.F.A., Indiana Univ., 1981.

Deborah Schwartz-Kates. Associate Professor of Musicology: B.M., Florida State Univ., 1976; M.A., Indiana Univ., 1982; D.M.A., Univ. of Texas (Austin), 1997.

John A. Stephens. Professor of Voice: B.M.E., Central Methodist, 1969; M.M., Northwestern, 1970; D.M.A., Illinois, 1975; Fulbright Studies (Hamburg), 1973-74; Professional Studies Program, Juilliard, 1974-76.

Paul Stevens. Assistant Professor of Horn: B.A., Univ. of California (Berkeley), 1982; M.M., San Francisco Conservatory, 1985; Juilliard, Professional Study, 1985-87; D.M.A., UCLA, 1999.

Thomas M. Stidham. Associate Professor; Assoc. Dir. Bands: B.F.A., M.Ed., Florida, 1962, 1965. Asst. Prof. & Dir. of Bands, Georgia Southern, 1968-74; Asst. Prof. & Asst. Dir. of Bands, Baylor, 1974-75.

Eric Stomberg. Assistant Professor of Bassoon: B.M., Kansas, 1994; M.M., D.M.A., Univ. of Cincinnati, 1996, 2004.

Joan Stone. Lecturer in Dance: B.A., Sarah Lawrence College, 1961; Master of Urban Studies, Yale, 1965.

Denise Lauzier Stone. Associate Professor of Visual Arts Education: Ph.D., Florida State Univ., 1986.

Patrick Suzeau. Associate Professor of Dance: B.A. Empire State College; M.A., Wesleyan Univ.; C.M.A., Laban/Bartenieff Inst. of Movement Studies.

Jon Keith Swindell. Professor of Design: B.F.A., Columbus College of Art & Design, 1973; M.F.A., Nebraska, 1983. Asst. Prof., Columbus College of Art & Design, 1973-80; Asst. Prof., Washington State Univ., 1983-86.

Gregory Thomas. Professor & Chair of Design: B.F.A., Kansas City Art Inst., 1967; M.F.A., California Inst. of the Arts, 1971; M.F.A., Yale Univ., 1974.

Paul Tucker. Associate Dir., Choral Activities

May Tveit. Assistant Professor of Design: B.F.A., Rhode Island School of Design, 1989; M.I.D., Domus Academy, Milan, Italy, 1991; European Honors Program (Rome), 1998.

Nicholas Uljanov. Associate Professor of Music; Dir., Orchestral Activities: M.M., D.M.A., St. Petersburg Conservatory, 1984, 1986; Postgraduate studies, Vienna Academy of Music.

Richard T. Varney. Associate Professor of Design: B.F.A., Art Ctr. College of Design, 1972.

F. Maria Velasco. Associate Professor of Art: B.F.A. (Painting & Drawing), Complutense Univ., Madrid, Spain, 1989; M.F.A. (Sculpture & Installation), Univ. of California (Santa Barbara), 1993.

David J. Vertacnik. Associate Professor of Design: B.S., Indiana State Univ., 1972; M.F.A., New York College of Ceramics, 1975.

Scott Watson. Professor of Tuba: B.M.E., Cincinnati, 1979; M.M., Kansas, 1981.

Gina Westergard. Assistant Professor of Design, Dir., Graduate Studies in Art & Design: B.A., San Diego State Univ., 1988; M.F.A., Indiana Univ., 1991.

Jack H. Winerock. Professor of Piano: B.S., M.S., Juilliard, 1965, 1967; D.M.A., Michigan, 1971.

Andrea Witzczak. Assistant Professor: B.F.A., M.F.A., Univ. of Illinois, 1985, 1989.

Jane Wong. Associate Professor of Design: B.F.A., Art Ctr. College of Design, 1971.

Retired Members of the Faculty

Thomas B. Allen. Hallmark Professor of Design
 Richard Angeletti. Professor of Piano
 George Boberg. Professor of Percussion
 John Boulton. Professor of Flute
 Howard N. Boyajian. Professor of Violin & Chamber Music
 Alexander L. Boyle. Professor of Design
 Vernon Brejcha. Associate Professor of Design
 Albert Dwight Burnham. Associate Professor of Art
 Maribeth Crawford, Associate Professor of Voice
 Alice Downs. Associate Professor of Piano
 Downer Dykes. Professor of Design
 Norman Gee. Professor of Art
 Albert Gerken. Professor of Music Theory; University Carillonneur
 Richard Gillespie. Associate Professor of Art
 Alan R. Hawkins. Associate Professor of Bassoon & Music Theory
 John S. McKay. Professor of Design
 Sandra Lee Mann. Professor of Design
 Edward C. Mattila. Professor of Music Theory
 Phyllis E. Brill Munczek. Associate Professor of Voice
 Eileen Murphy. Associate Professor of Design
 Norman Paige. Professor of Voice
 Daniel T. Politoske. Professor of Music History
 John W. Pozdro. Professor of Music Theory & Composition
 Brian Priestman. Artist in Residence; Dir., University Symphony Orchestra
 Rudolf E. Radocy. Professor of Music Education & Music Therapy
 James S. Ralston. Professor of Choral Music
 Frank Martin Reiber. Professor of Design
 Carole Ross. Associate Professor of Piano; Associate Dean Emerita
 Cynthia Schira. Professor of Design
 Richard Schira. Professor of Art
 Roger Y. Shimomura. University Distinguished Professor of Art
 Stanley N. Shumway. Professor of Music Theory; Associate Dean Emeritus
 Carlyle Henry Smith. Professor of Design
 J. Roger Stoner, Professor of Trumpet, Associate Chair of Music & Dance Emeritus
 Robert Newton Sudlow. Professor of Art
 John Joseph Talleur. Professor of Art
 Elden Tefft. Professor of Art
 Peter G. Thompson. Professor of Art, Dean Emeritus
 Olli Peter Valanne. Associate Professor of Design
 Robert Wright. Professor of Art
 Joseph R. Zeller. Professor of Design

School of Journalism and Mass Communications

Administration

Ann M. Brill, Ph.D., Dean
 David W. Guth, M.A., Associate Dean
 David D. Perlmutter, Ph.D., Associate Dean, Graduate Studies & Research
 Lynne Tidwell, M.M., Coordinator of Undergraduate Advising
 Patricia Noland, M.S., Career Development Coordinator

Faculty

Barbara Barnett. Assistant Professor: Ph.D., North Carolina, 2003. News & information.

Robert Basow. Associate Professor: M.B.A., St. Louis Univ., 1972. Strategic communications.

Timothy A. Bengtson. Clyde & Betty Reed Teaching Associate Professor of Journalism: Ph.D., Northwestern, 1977. Strategic communications.

Kerry Benson. Lecturer: M.A., Columbia, 1992. Strategic communications.

Christy Bradford. Lecturer: B.J., Missouri, 1964. News & information.

Ann M. Brill. Associate Professor: Ph.D., Minnesota, 1994. News & information.

John R. Broholm. Associate Professor: Ph.D., Kansas, 1991. News & information.

Theodore P. Frederickson Jr. William Allen White Foundation Professor of Journalism: J.D., North Dakota, 1975. News & information.

Mugur V. Geana. Assistant Professor: Ph.D., Missouri, 2006. Strategic communications.

James K. Gentry. Professor: Ph.D., Missouri, 1993. Strategic communications.

Malcolm Gibson. General Manager, *The University Daily Kansan*: M.A., Florida, 1994. News & information.

David W. Guth. Associate Professor: M.A., North Carolina, 1990. Strategic communications.

Carol Holstead. Associate Professor: M.A., Kansas State Univ., 1983. News & information.

John C. Hudnall. Lecturer & Exec. Dir., Kansas Scholastic Press Association: M.S., Central Missouri State Univ., 1972. News & information.

Tim Janicke. Lecturer: B.S., Kansas State Univ., 1986. News & information.

Peggy J. Kuhr. Knight Foundation Teaching Professor of Journalism: M.S. Gonzaga, 1993. News & information.

Linda S. Lee. Associate Professor: M.A., North Carolina, 1976. Strategic communications.

Tien-Tsung Lee. Associate Professor: Ph.D., Oregon, 1999. Strategic communications.

Denise Linville. Lecturer: Ph.D., Kansas, 1992. Strategic communications.

Charles W. Marsh Jr. William Allen White Foundation Associate Professor: Ph.D., Kansas, 1985. Strategic communications.

Richard S. Musser Jr. Clyde M. Reed Teaching Professor of Journalism: Ph.D., Indiana, 1978. News & information.

Dick Nelson. General Manager, KUJH-TV: M.A., Missouri, 1971. News & information.

Patricia Noland. Lecturer: M.S., Kansas, 1987. News & information.

Diane O'Byrne. Lecturer: M.B.A., Rockhurst, 1985. Strategic communications.

David D. Perlmutter. Professor: Ph.D., Minnesota, 1996. News & information.

Susanne Shaw. Professor; Exec. Dir., ACEJMC: M.S., Kansas, 1967. News & information.

Kristin Swain. Assistant Professor: Ph.D., Florida, 1999. News & information.

Max R. Utsler. Associate Professor: Ph.D., Missouri, 1981. News & information.

Thomas W. Volek. William Allen White Foundation Associate Professor: Ph.D., Minnesota, 1990. Strategic communications.

Douglas B. Ward. Assistant Professor: Ph.D., Maryland, 1996. News & information.

Retired Members of the Faculty

Samuel Adams, Associate Professor, M.A.
 Sharon Bass, Associate Professor, M.A.
 Tom Eblen, Kansas General Manager, B.S.
 Tom Hedrick, Lecturer, M.A.
 Paul Jess, Professor, Ph.D.
 Dana A. Leibengood, Director of Student Services, M. S.
 Bruce A. Linton, Professor, Ph.D.
 Calder Pickett, Clyde M. Reed Distinguished Professor Emeritus, Ph.D.
 Lee F. Young, William Allen White Distinguished Teaching Professor Emeritus, M.S.

School of Nursing

Administration

Karen L. Miller, RN, Ph.D., FAAN, Senior Vice Chancellor & Dean
 Michael Bleich, RN, Ph.D., Associate Dean, Clinical & Community Affairs
 Marge Bott, RN, Ph.D., Associate Dean, Research
 Helen R. Connors, RN, Ph.D., FAAN, Associate Dean, Academic Affairs
 Rita Clifford, RN, Ph.D., Associate Dean, Student Affairs
 Cynthia Teel, RN, Ph.D., Assistant Dean, Academic Affairs
 Anita Wingate, RN, Ph.D., Assistant Dean, Academic Affairs

Faculty

Lauren Aaronson. Professor: Ph.D., Univ. of Washington.

Kathy Bangertter. Clinical Assistant Professor: M.S., Fort Hays State Univ.

Nancy Barr. Clinical Instructor: M.S., Univ. of Kansas.

Annette Becker. Research Instructor: M.A., Univ. of Missouri (Kansas City)

Jenny Beerman. Clinical Assistant Professor: M.N., Univ. of Kansas.

June Belt. Clinical Assistant Professor: M.S.N., Univ. of Pennsylvania.

Sandra Bergquist. Assistant Professor: Ph.D., Univ. of Iowa.

Heather Bland. Clinical Instructor: M.A., Chapman Univ.

Michael Bleich. Professor: Ph.D., Univ. of Nebraska.

Wanda Bonnel. Associate Professor: Ph.D., Univ. of Kansas.

Marge Bott. Assistant Professor: Ph.D., Univ. of Kansas.

Diane Boyle. Associate Professor: Ph.D., Univ. of Kansas.

Ginger Breedlove. Assistant Professor: C.N.M., Medical School of South Carolina; Ph.D., Univ. of Missouri (Kansas City).

M. Kathleen Brewer. Clinical Associate Professor: Ph.D., Georgia State Univ.

Rita Clifford. Associate Professor: Ph.D., Univ. of Kansas.

Lynne Connelly. Assistant Professor: Ph.D., Univ. of Kansas.

Helen Connors. Professor: Ph.D., Univ. of Kansas.

Karen Cooper. Clinical Assistant Professor: M.S., Univ. of Kansas.

Susan Dana. Research Instructor: M.S., Univ. of Kansas

Jan Davidson. Research Assistant Professor: M.S.N., Univ. of Texas (Houston).

Elaine Domian. Clinical Assistant Professor: Ph.D., Univ. of Kansas.

Nancy Dunton. Research Associate Professor

Diane Ebbert. Clinical Assistant Professor: Ph.D., Univ. of Wisconsin.

K. Fernegel. Clinical Assistant Professor: Ph.D., Univ. of Kansas.

Kathy Fletcher. Clinical Associate Professor: Ph.D., Univ. of Kansas.

Denise Fryzelka. Clinical Instructor: M.S., Philadelphia Univ.

Nancy Graves. Research Instructor: M.A., Univ. of Kansas.

JoEllen Greischar-Billiard. Clinical Assistant Professor: M.S., Russel Sage College.

Edna Hamera. Associate Professor: Ph.D., Univ. of Kansas.

Sandy Hanson. Assistant Professor: M.Ed., Univ. of Kansas.

Vickie Hicks. Clinical Assistant Professor: M.S., Univ. of Kansas.

K. Hislop. Clinical Instructor: M.S., Medical Univ. of South Carolina.

Stephanie Jernigan. Clinical Instructor, M.S., Duke Univ.; Ph.D., Univ. of Kansas.

Diane Kennedy. Clinical Assistant Professor: M.N., Univ. of Kansas.

Pamela Kepus. Clinical Instructor, M.S., Univ. of Missouri (Kansas City)

Naomi King. Clinical Assistant Professor: M.S., Univ. of Kansas.

Susan Klaus. Research Instructor, M.S.N., Univ. of Missouri (Kansas City)

Melinda Krautman. Clinical Instructor, M.S., Texas A & M

Sharon Kumm. Clinical Assistant Professor: M.N., Univ. of Washington.

Barb Langner. Associate Professor: Ph.D., Univ. of Kansas.

Mary Leenerts. Clinical Assistant Professor: Ph.D., Univ. of Colorado Health Sciences Ctr.

David Martin. Clinical Assistant Professor: M.N., Univ. of Washington.

Karen Miller. Professor: Ph.D., Univ. of Colorado Health Sciences Ctr.

P. Miller. Research Instructor: M.S., Univ. of Kansas.

Geri Neuberger. Professor: Ed.D., Univ. of Kansas.

Jackie Nowak. Clinical Instructor: M.S., Univ. of Kansas.

Leonie Pallikkathayil. Associate Professor: M.S.N., Univ. of Cincinnati; D.N.S., Indiana Univ.

Susan Parker. Clinical Assistant Professor: Ed.S., Univ. of Missouri (Kansas City).

Mena Patel. Clinical Instructor: M.S., Univ. of Kansas.

Moya Peterson. Clinical Assistant Professor: M.A., Univ. of Iowa.

U. Pijariyaku. Research Assistant Professor: Ph.D., Univ. of Kansas.

Janet Pierce. Associate Professor: D.S.N., Medical College of Virginia.

Sue Popkess-Vawter. Professor: Ph.D., Univ. of Texas (Austin).

Wilaiporn Rajjanasrirat. Research Assistant Professor, Ph.D., Univ. of Kansas

Linda Redford. Adjunct Assistant Professor: Ph.D., Univ. of Kansas.

Veronica Rempusheski. Associate Professor: Ph.D., Univ. of Arizona.

Ellen Rindner. Clinical Instructor: Ph.D., Univ. of Kansas.

Vicki Ross. Research Assistant Professor, Ph.D., Univ. of Kansas

Monica Scheibmeir. Associate Professor: Ph.D., Univ. of Kansas.

Jeanne Schott. Associate Professor: M.S., Boston Univ.

Steve Scott. Clinical Instructor: Ph.D., M.S.N., Univ. of Kansas.

Suzu Shupe. Clinical Assistant Professor: M.N., Univ. of Kansas

Julia Slaven. Clinical Instructor: M.S., Univ. of Kansas.

Carol Smith. Professor: Ph.D., Univ. of Minnesota.

Carol Starling. Clinical Assistant Professor: Ph.D., George Mason.

Eldonna Sylvia. Clinical Instructor: M.S., Univ. of Kansas.

Karen Tarnow. Clinical Assistant Professor: Ph.D., Univ. of Nebraska.

Cindy Teel. Associate Professor: Ph.D., Univ. of Arizona.

Sarah Thompson. Associate Professor: Ph.D., Univ. of Kansas.

Karen Wambach. Associate Professor: Ph.D., Univ. of Arizona

Judy Warren. Associate Professor: Ph.D., Univ. of Hawaii.

Gina Weddle. Clinical Instructor: M.S., Univ. of Kansas.

Sally Whitaker. Clinical Instructor: M.S., Univ. of Kansas.

Judie Wika. Clinical Assistant Professor: M.S.N., Univ. of Kentucky.

Kristine Williams. Assistant Professor: Ph.D., Univ. of Kansas.

Phoebe Williams. Professor: Ph.D., Univ. of Pittsburgh.

Anita Wingate. Associate Professor: Ph.D., Univ. of Kansas.

Retired Members of the Faculty

Barb Bridges, Associate Professor
 Barbara J. Clancy, Professor
 Melba Carter, Assistant Professor
 Ann Cobb, Professor
 Mary Anne Eisenbise, Associate Professor
 Mary Ann Kasper, Associate Professor
 Julia Hagemaster, Assistant Professor
 Diane Hill, Assistant Professor
 Amal Medhat, Assistant Professor
 Eleanor Sullivan, Professor
 Sharon L. Summers, Professor
 Roma Lee Taunton, Professor
 Shirley Veith, Associate Professor
 Norma J. (Marj) Wirthman, Associate Professor
 Cynthia Q. Woods, Assistant Professor

School of Pharmacy

Administration

Kenneth L. Audus, Ph.D., Dean
 Gene R. Hotchkiss, B.S., Associate Dean, Administration
 Ronald Ragan, Ph.D., Associate Dean, Academic Affairs
 John Stobaugh, Ph.D., Associate Dean, Graduate Affairs
 Harold N. Godwin, M.S., Associate Dean, Medical Center Affairs

Faculty

Gaby Aced. Adjunct Assistant Professor of Pharmaceutical Chemistry: Ph.D., Technical Univ., Berlin.
Jane V. Aldrich. Professor of Medicinal Chemistry: Ph.D., Michigan.
Michail Alterman. Courtesy Assistant Professor of Pharmacology & Toxicology: Ph.D., Russian State Medical Univ., Moscow.
Paul Anderson. Courtesy Professor of Medicinal Chemistry: Ph.D., New Hampshire.
Shirley Arck. Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Kansas.
Bernadette Ashcraft. Instructor in Pharmacy Practice: B.S., Kansas.
Jeffrey Aubé. Professor of Medicinal Chemistry: Ph.D., Duke.
Kenneth L. Audus. Dean, Professor of Pharmaceutical Chemistry; Courtesy Professor of Pharmacology & Toxicology: Ph.D., Kansas.
James Backes. Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Nebraska.
Brian Barnes. Assistant Professor Pharmacy Practice: Pharm.D., Kansas.
Janelle Basgal-Ruisinger. Clinical Assistant Professor Pharmacy Practice: Pharm.D., Kansas.
Christine Berger. Clinical Assistant Professor of Pharmacy Practice; Dir., Pharmacy Practice Experience Program: Pharm.D., Kansas.
Cory Berkland. Assistant Professor of Pharmaceutical Chemistry: Ph.D., Illinois.
Ragini Bhakta. Adjunct Clinical Assistant Professor Pharmacy Practice: Pharm.D., Pacific.
Brian Blagg. Assistant Professor of Medicinal Chemistry: Ph.D., Utah.
Gregory Blank. Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Southern California.
Mary Kate Blankenship. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
Jack Bond. Adjunct Clinical Assistant Professor of Pharmacy Practice: M.H.S., Wichita State.
John Bontempo. Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Rutgers.
Ronald T. Borchardt. Summerfield Distinguished Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
Karen Braman. Adjunct Clinical Assistant Professor Pharmacy Practice: M.S., Kansas.
Duane Brandau. Courtesy Professor of Pharmaceutical Chemistry: Ph.D., Wyoming.
Joe Burwinkle. Adjunct Clinical Assistant Professor of Pharmacy Practice: M.S., Kansas.
Alan Carter. Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Kansas.
Susan Charman. Adjunct Associate Professor of Pharmaceutical Chemistry: Ph.D., Florida.
William Charman. Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
Rick Couldry. Clinical Assistant Professor of Pharmacy Practice, KUMC: M.S., Kansas.
Matt Curtis. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Missouri (Kansas City).
Stephanie N. Dahm. Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Nebraska.
Sunil David. Assistant Professor of Medicinal Chemistry: Ph.D., Madras Univ., India.
Lawrence W. Davidow. Clinical Assistant Professor of Pharmacy Practice: Ph.D., Kansas.
Malonne Davies. Adjunct Assistant Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
Charles Decedue. Courtesy Associate Professor of Pharmacology & Toxicology: Ph.D., Louisiana State.
Eugene DeDonder. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
Alan DeFever. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
Rick T. Dobrowsky. Associate Professor of Pharmacology & Toxicology: Ph.D., North Carolina State.
Chi Doung. Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Kansas.
Apurba Dutta. Assistant Professor of Medicinal Chemistry: Ph.D., North Eastern Hill Univ., India.
Leslie A. Eidem. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Southwestern Oklahoma State.
Ellie Elliott. Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Nebraska.

Robert L. Emerson. Clinical Assistant Professor of Pharmacy Practice, B.S., Kansas.
Marty Eng. Clinical Assistant Professor Pharmacy Practice: Pharm.D., Maryland.
Lou Feldman. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., New York (St. Johns).
Steve Flaherty. Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Kansas.
Daniel Flynn. Adjunct Professor of Medicinal Chemistry: Ph.D., Kansas.
Tanya L. Folker. Adjunct Clinical Assistant Professor of Pharmacy Practice, KUMC: Pharm.D., Kansas.
Stephen Fowler. Professor of Pharmacology & Toxicology: Ph.D., Princeton.
William Frieze. Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Missouri (Kansas City).
James C. Garrelts. Adjunct Clinical Associate Professor of Pharmacy Practice: Pharm.D., Texas (Austin).
Thomas Garrison. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Missouri (Kansas City).
Stevin Gehrke. Courtesy Professor of Pharmaceutical Chemistry: Ph.D., Minnesota.
Joyce Generali. Clinical Associate Professor of Pharmacy Practice, KUMC: M.S., Kansas.
Harold N. Godwin. Associate Dean, Medical Center Affairs; Professor of Pharmacy Practice: M.S., Ohio State.
Allen Graber. Adjunct Clinical Assistant Professor of Pharmacy Practice: M.S., Kansas.
Dennis Grauer. Assistant Professor of Pharmacy Practice: Ph.D., Ohio State.
P. Lou Greenhaw. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Missouri (Kansas City).
Donnie Griffin. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Missouri (Kansas City).
Vernessa Griffin. Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Kansas.
Gary L. Grunewald. Professor of Medicinal Chemistry: Ph.D., Wisconsin.
Michael Hageman. Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
Bob Haneke. Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Kansas.
Paul R. Hanson. Courtesy Assistant Professor of Medicinal Chemistry: Ph.D., Minnesota.
Robert P. Hanzlik. Professor of Medicinal Chemistry: Ph.D., Stanford.
Kenneth Harms. Adjunct Clinical Assistant Professor of Pharmacy Practice, KUMC: B.S., Kansas.
John Hefferen. Courtesy Professor of Pharmaceutical Chemistry: Ph.D., Wisconsin.
Dennis Hendershot. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
David W. Henry. Associate Professor of Pharmacy Practice, KUMC: M.S., Kansas.
Deborah Hinnen. Adjunct Clinical Assistant Professor of Pharmacy Practice: RN, ARNP, CDE; M.N., Wichita State.
Vicki L. Holst. Instructor in Pharmacy Practice: B.S., Kansas.
E. Todd Hooper. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Tennessee.
Gene R. Hotchkiss. Associate Dean, Administration: B.S., Kansas.
Patricia A. Howard. Professor of Pharmacy Practice, KUMC: Pharm.D., Kansas.
Marion Huet-Derrossett. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Missouri (Kansas City).
Andreas Huhmer. Adjunct Assistant Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
Jin (Jean) Kim. Assistant Professor of Pharmacology & Toxicology: Ph.D., New York.
James W. Kleoppel. Clinical Assistant Professor of Pharmacy Practice; Dir., Pharmacy Practice Experience Program, KUMC: M.S., Kansas.
Christopher Klockau. Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Missouri (Kansas City).
Jeff Krise. Assistant Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
Keshava N. Kumar. Courtesy Assistant Professor of Pharmacology & Toxicology: Ph.D., Mysore Univ., India.
JoAnn Lacy. Adjunct Clinical Assistant Professor Pharmacy Practice: B.S., Kansas.
Melinda K. Lacy. Assistant Professor of Pharmacy Practice, KUMC: Pharm.D., Kansas.
Danny Lattin. Lecturer in Medicinal Chemistry: Ph.D., Minnesota.
Jennifer Laurence. Assistant Professor of Pharmaceutical Chemistry: Ph.D., Purdue.
J. Steven Leeder. Adjunct Professor of Pharmacology & Toxicology: Ph.D., Univ. of Toronto, Canada.
Sherwood R. Lehrman. Adjunct Associate Professor of Pharmaceutical Chemistry: Ph.D., Wisconsin.
Craig Lunte. Courtesy Professor of Pharmaceutical Chemistry: Ph.D., Purdue.

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- Susan M. Lunte.** Professor of Pharmaceutical Chemistry & of Pharmacy Practice: Ph.D., Purdue.
- Gerald Lushington.** Courtesy Professor of Medicinal Chemistry: Ph.D., New Brunswick.
- Rob Mabry.** Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
- Brian McAfee.** Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Missouri (Kansas City).
- Michelle McIntosh.** Courtesy Assistant Professor of Pharmaceutical Chemistry: Ph.D., Monash Univ., Australia.
- Tari Malmgren.** Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
- Scott Martin.** Adjunct Assistant Professor of Pharmaceutical Chemistry: Ph.D., Missouri.
- Elias K. Michaelis.** University Distinguished Professor of Pharmacology & Toxicology: M.D., St. Louis; Ph.D., Kentucky.
- Mary L. Michaelis.** Professor of Pharmacology & Toxicology: Ph.D., Kansas.
- C. Russell Middaugh.** Takeru & Aya Higuchi Distinguished Professor of Pharmaceutical Chemistry: Ph.D., Cornell.
- Debbie E. Mishler.** Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
- Katherine E. Mitchell.** Associate Professor Pharmacology & Toxicology: Ph.D., Nevada.
- Lester A. Mitscher.** University Distinguished Professor of Medicinal Chemistry: Ph.D., Wayne State.
- Karen Moeller.** Clinical Assistant Professor Pharmacy Practice: Pharm.D., Virginia.
- Monte Monfore.** Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
- Jackob Moskovitz.** Assistant Professor of Pharmacology & Toxicology: D.Sc., Inst. of Technology, Israel.
- David Mueller.** Adjunct Clinical Assistant Professor Pharmacy Practice: B.S., Drake.
- Eric Munson.** Associate Professor of Pharmaceutical Chemistry: Ph.D., Texas A&M.
- Tue Nguyen.** Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
- Toshiaki Nishihata.** Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Osaka Univ. (Japan).
- Nyla O'Neal.** Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Kansas.
- Amy Osborn.** Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
- Michael A. Oszko.** Associate Professor of Pharmacy Practice, KUMC: Pharm.D., Cincinnati.
- Patrick E. Parker.** Adjunct Clinical Assistant Professor of Pharmacy Practice: M.S., Kansas.
- Lorraine Poell.** Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Kansas.
- Karen Post.** Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
- Michael Powell.** Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Univ. of Toronto, Canada.
- Joann Pyle.** Adjunct Clinical Assistant Professor of Pharmacy Practice, KUMC: B.S., Kansas.
- Ronald Ragan.** Associate Dean, Academic Affairs; Clinical Assistant Professor Pharmacy Practice: Dir., Nontraditional Pharm.D. Program: Ph.D., Kansas.
- Roger Rajewski.** Courtesy Associate Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
- Fiona Regan.** Adjunct Associate Professor of Pharmaceutical Chemistry: Ph.D., Dublin City Univ., Ireland.
- Arnold J. Repta.** Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Wisconsin.
- Christopher M. Riley.** Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Univ. of Bath.
- Gerald Rork.** Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
- Tom Rosanske.** Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Wisconsin.
- Valerie Ruehter.** Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Missouri (Kansas City).
- J. Howard Rytting.** Professor of Pharmaceutical Chemistry: Ph.D., Brigham Young.
- Ernst Schönbrunn.** Assistant Professor of Medicinal Chemistry: Ph.D., Max-Planck Inst., Hamburg, Germany.
- Christian Schöneich.** Professor & Chair of Pharmaceutical Chemistry: Ph.D., Hahn-Meitner Institut, Berlin.
- Todd Schroeder.** Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., South Dakota.
- Emily Scott.** Assistant Professor of Medicinal Chemistry: Ph.D., Rice.
- Leigh Ann Scott.** Clinical Assistant Professor of Pharmacy Practice, KUMC: Pharm.D., Kansas.
- Roland Seifert.** Adjunct Professor of Pharmacology & Toxicology: M.D., Ph.D., Free Univ. of Berlin.
- Zahra Shahrokh.** Adjunct Assistant Professor of Pharmaceutical Chemistry: Ph.D., Univ. of California (Berkeley).
- Theresa I. Shireman.** Assistant Professor of Pharmacy Practice: Ph.D., Wisconsin (Madison).
- Teruna Siahaan.** Associate Professor of Pharmaceutical Chemistry: Ph.D., Arizona.
- Marylee Southard.** Courtesy Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
- Jeff Staudinger.** Assistant Professor of Pharmacology & Toxicology: Ph.D., Texas.
- Valentino Stella.** University Distinguished Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
- John Stobaugh.** Associate Dean, Graduate Affairs; Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
- Brian Sullivan.** Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Kansas.
- Jon Ternus.** Adjunct Clinical Assistant Professor Pharmacy Practice: B.S., Drake.
- Diane Thompson.** Adjunct Assistant Professor of Pharmaceutical Chemistry: Ph.D., Kansas.
- Thomas Thompson.** Adjunct Professor of Medicinal Chemistry: Ph.D., Kansas.
- Kathy Thrasher.** Adjunct Clinical Assistant Professor of Pharmacy Practice: B.S., Kansas.
- Barbara Timmerman.** University Distinguished Professor & Chair of Medicinal Chemistry: Ph.D., Texas.
- Elizabeth Topp.** Professor of Pharmaceutical Chemistry: Ph.D., Michigan.
- Robert Trueworthy.** Courtesy Professor of Pharmaceutical Chemistry: M.D., Washington Univ.
- David Vander Velde.** Courtesy Professor of Medicinal Chemistry & of Pharmaceutical Chemistry: Ph.D., Illinois.
- Elisabeth Veerporte.** Adjunct Professor of Pharmaceutical Chemistry: Ph.D., Univ. of Alberta, Canada.
- Sandra C. Vigil-Cruz.** Research Assistant Professor of Medicinal Chemistry: Ph.D., Oregon State Univ.
- Lura Weaver.** Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., M.S., Kansas.
- Todd Williams.** Courtesy Associate Professor of Medicinal Chemistry: Ph.D., Maine.
- Mark Wilson.** Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Nebraska (Creighton).
- George S. Wilson.** Takeru Higuchi Distinguished Professor of Pharmaceutical Chemistry & of Chemistry: Ph.D., Illinois.
- Barbara L. Woods.** Clinical Assistant Professor of Pharmacy Practice; Dir., Pharmacy Continuing Education: B.S., Kansas.
- Mark T. Woods.** Adjunct Clinical Assistant Professor of Pharmacy Practice: Pharm.D., Nebraska.
- Mehran Yazdanian.** Adjunct Assistant Professor of Pharmaceutical Chemistry: Ph.D., Univ. of Wisconsin.
- Qi Zhuang Ye.** Courtesy Professor of Medicinal Chemistry: Ph.D., Kansas.
- Asma Zaidi.** Courtesy Assistant Professor Pharmacology & Toxicology: Ph.D., Aligarh Univ., India.

Retired Members of the Faculty

- Walter R. Dixon. Professor Emeritus. Ph.D., SUNY.
- Morris D. Faiman. Professor Emeritus. Ph.D., Minnesota.
- Theodore Kuwana. Regents Distinguished Professor of Pharmaceutical Chemistry & of Chemistry Emeritus. Ph.D., Kansas.
- Howard E. Mossberg. Dean & Professor Emeritus. Ph.D., Florida.
- Richard Schowen. Summerfield Distinguished Professor of Chemistry & of Pharmaceutical Chemistry Emeritus. Ph.D., Univ. of California (Berkeley).

Experiential Preceptors

- Jarratt Asher. Pharm.D., Kansas.
- Steve Bateson. B.S., Kansas.
- John M. Baughman. B.S., Kansas.
- Ed Boyd. B.S., Kansas.
- Ronald Erker. B.S., Kansas.
- Dale Heckethorn. B.S., Kansas.
- Dennis Hendershot. B.S., Kansas.
- Jane S. Henry. M.B.A., Kansas.
- Pamela J. Hicks. B.S., Kansas.
- Don Hill. B.S., Kansas.
- Brad Hrabik. B.S., Kansas.
- Mary Vane Keshalo. B.S., Kansas.
- Bill Koehn. B.S., Missouri (Kansas City).
- Pack LaMont. M.S., Kansas.
- Randy Lutz. B.S., Kansas.
- Mike McCafferty. B.S., Kansas.
- Ken Mishler. Pharm.D., Kansas.
- Richard O'Connor. B.S., Kansas.
- Doug Pederson. Pharm.D., Kansas.
- Jeff Pierce. Pharm.D., Kansas.
- David Pistole. B.S., Kansas.
- Patrick Porter. B.S., Missouri (Kansas City)

Steve Romans. Pharm.D., Nebraska.
 Phil Schneider. Pharm.D., Iowa.
 Eric Scott, Pharm.D., Kansas.
 Rick Stone. B.S., Kansas.
 Monica Terry. Pharm.D., Missouri (Kansas City).

School of Social Welfare

Administration

Mary Ellen Kondrat, Ph.D., Dean
 Thomas McDonald, Ph.D., Associate Dean, Research & External Programs
 Richard Spano, Ph.D., Associate Dean, Academic Programs
 Melanie Hepburn, M.A., Assistant Dean
 Ed Canda, Ph.D., Chair, Ph.D. Program
 Lori Messinger, Ph.D., Director of B.S.W. Program
 Kay Lynne Myers, M.S.W., Program Director, Edwards Campus
 K. Jean Peterson, Director of Field Education
 Kris Matthews, M.S.W., Assistant Director of Field Education

Faculty

Deborah Adams. Ph.D., Washington (St. Louis), Assoc. Prof. Violence against women, asset-based anti-poverty initiatives, social & economic development, quantitative research methods.
Julia Archer. M.S.W., Ph.D., Denver, Asst. Prof. Clinical practice, cultural competence.
Mahasweta M. Banerjee. Ph.D., Washington (St. Louis), Assoc. Prof. Theories & practices associated with social & economic community development, micro-enterprise as an anti-poverty strategy, critique of welfare reform through constructivist research.
Marianne Berry. Ph.D., California, Prof. Child welfare, program & practice evaluations, interventions with children & families including family preservation & adoption.
Sondra Beverly. Ph.D., Washington (St. Louis), Asst. Prof. Programs & policies related to welfare reform, asset accumulation, material hardship, & the use of financial services by low-income individuals.
Edward Canda. Ph.D., Ohio State, Prof. Transcultural social work theory & practice, spirituality & religious diversity, holistic health, Asian & Asian-American issues.
Rosemary Chapin. Ph.D., Minnesota, Prof. Strengths based social policy, public policy in long-term care financing & in the promotion of autonomy & community alternatives for elders with disabilities.
Catherine Crisp. M.S.W., Kansas; Ph.D., Univ. of Texas (Austin); Asst. Prof. Substance abuse, mental health, practice with gays & lesbians.
Mark Ezell. Ph.D., Florida State, Prof. Social work administration, juvenile justice, social work advocacy, research & program evaluation, privatization & contracting.
Helen Hartnett. Ph.D., Ohio State, Asst. Prof. Community practice & neighborhood change, housing, homelessness, poverty, the connections between social geography & social work practice.
Mark Holter. M.S.W., Ph.D., Columbia Univ. Assoc. Prof. Evaluation of community-based mental health services for persons with serious mental illness; homelessness; program fidelity; benefits & costs of interventions.
Toni Johnson. M.S.S.W., Ph.D., Univ. of Texas (Austin), Asst. Prof. Clinical practice, offender families, diversity.
Stephen Kapp. Ph.D., Michigan State, Assoc. Prof. Juvenile justice, agency-based program evaluation including outcome-oriented program management & consumer-based input.
Johnny Kim. M.S.W., Boston College; Ph.D., Univ. of Texas (Austin); Asst. Prof. School social work, community mental health practice with adults & families; culturally competent practice, substance abuse, advanced statistical methodologies.
Terry Koenig. M.S.W., Ph.D., Kansas, Asst. Prof. Aging, ethical decision making.
Mary Ellen Kondrat. M.S.S.W., Ph.D., Wisconsin (Madison), Dean, Prof. International social development, cross-cultural & international practice, mental health services research, qualitative research.

Alice Lieberman. Ph.D., Wisconsin, Prof. Social work education in child welfare, effect of vendorship legislation on practice, reproductive rights policy & teen pregnancy.
Thomas McDonald. Ph.D., Wisconsin, Prof. Child welfare & children's mental health, research methods, statistical analysis, service delivery, use of information systems in policy & practice decisions.
Lori Messinger. Ph.D., Univ. of North Carolina, Asst. Prof. Rural social work practice; diversity issues particularly concerning African Americans, women, gay men, & lesbians.
Holly Nelson-Becker. M.S.W., Arizona State; Ph.D., Chicago; Asst. Prof. Social work practice, aging & spirituality.
K. Jean Peterson. D.S.W., Columbia, Assoc. Prof. Social work theory & practice with special interest in issues connected to sexual orientation & women.
Christopher Petr. Ph.D., Kansas, Prof. Policy & practice issues in child mental health & child welfare, family-centered practice, professional-consumer relationship.
Judy Postmus. M.S.W., Barry Univ.; Ph.D., SUNY (Albany); Asst. Prof. Domestic violence, welfare, child welfare, criminal justice.
Charles Rapp. Ph.D., Illinois, Prof. Development & testing of client-centered administrative practices, community mental health practice & policy centered on people with severe mental illness.
Edward Scanlon. M.S.W., Kansas; Ph.D., Washington (St. Louis); Assoc. Prof. Social work practice.
Margaret Severson. J.D., M.S.W., Univ. of Denver, Assoc. Prof. Research & practice in social justice venues, including mental health & suicide prevention programming in detention centers; divorce & child custody mediation; restorative justice & social work ethics.
Woochan Shim. M.S.W., Columbia; Ph.D., Univ. of Illinois (Urbana-Champaign), Asst. Prof. Domestic violence, resiliency.
Richard Spano. Ph.D., Minnesota, Assoc. Prof. Child welfare, particularly foster care; sexual abuse; the history of social work & social welfare; ethics & values as they impact practice.
Ariana Wall. M.S.W., Louisiana State; Ph.D., North Carolina, Asst. Prof. Child welfare, delinquency, research.

Military Studies (Reserve Officers Training Corps)

Justin Abel. Assistant Professor of Military Science: B.S., Education, Columbus College, 1991.
Michael S. Beaty. Instructor in Naval Science: B.S., System Engineering, U.S. Naval Academy, 2000. Navigation & operations I & II; naval ships systems I (engineering).
Keith Bland. Assistant Professor of Aerospace Studies: M.M., Conducting, Univ. of Missouri (Kansas City), 1996. Leadership & management.
John Clark. Assistant Professor of Military Science: M.S., Physics, Univ. of Kansas, 2003. Leadership & military management.
Jeffrey K. Daniels. Assistant Professor of Naval Science: M.S., Human Resource Development, 2001. Evolution of warfare, amphibious warfare.
Corey K. Edmonds. Adjunct Professor of Aerospace Studies: M.S., Management Information Technology, Colorado Technical Univ., 2004.
Gary Farley. Assistant Professor of Military Science: M.E. Education, Univ. of Oklahoma, 2005.
Laura Glenn. Instructor in Naval Science: B.A., Criminal Justice, George Washington Univ., 1999. Introduction to naval science, naval ships systems II (weapons).
Daniel L. Hatchel. Assistant Professor of Aerospace Studies: M.A., Computer Information & Resource Management, Webster Univ. Leadership & management.
Sandra S. Leiker. Professor of Aerospace Studies: M.S., Operations Research, Air Force Inst. of Technology, 1995; Air Command & Staff College, 2003; Joint Forces Staff College, 2003.
Jeff Maxcy. Professor of Military Science: M.A., Asian Studies, Univ. of Wisconsin, 2001. Leadership & military management.
Christopher D. Orwoll. Professor of Naval Science: M.A., Strategic Studies, Air War College, 2003. Principles of naval organization & management (leadership & management I), seapower & maritime affairs, seminar in leadership ethics.

As part of their degree requirements, 450 bachelor's and master's students in social welfare complete 235,000 hours of fieldwork annually in hospitals, schools, mental health clinics, and other social service agencies in Kansas and the Kansas City metropolitan area.

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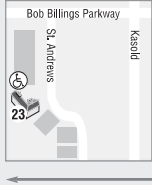
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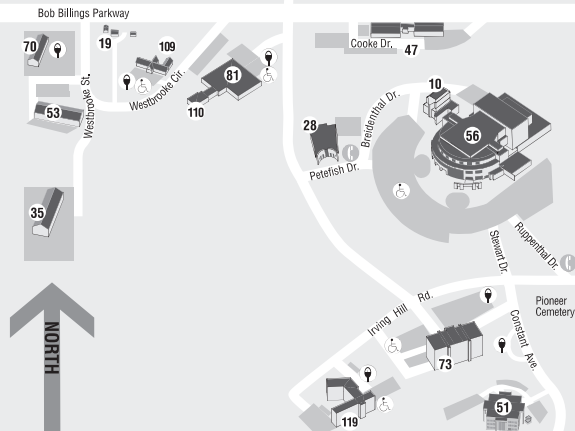
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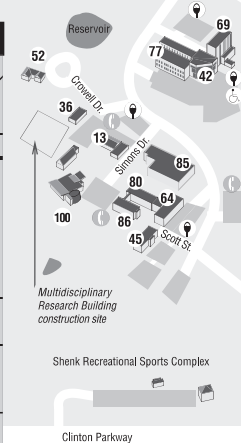
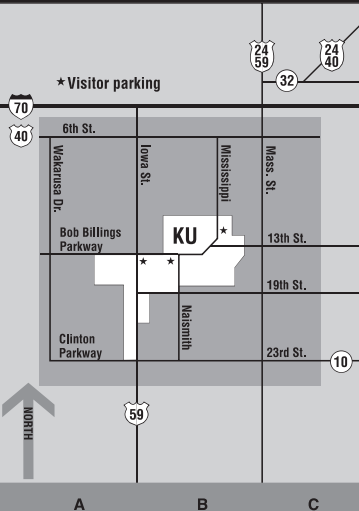
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- 50** Building number
- Metered parking
- Reserved for physically impaired
- Bus stop
- Motorcycle parking
- Emergency phone
- Traffic information booth
- Visitor parking
- Parking office

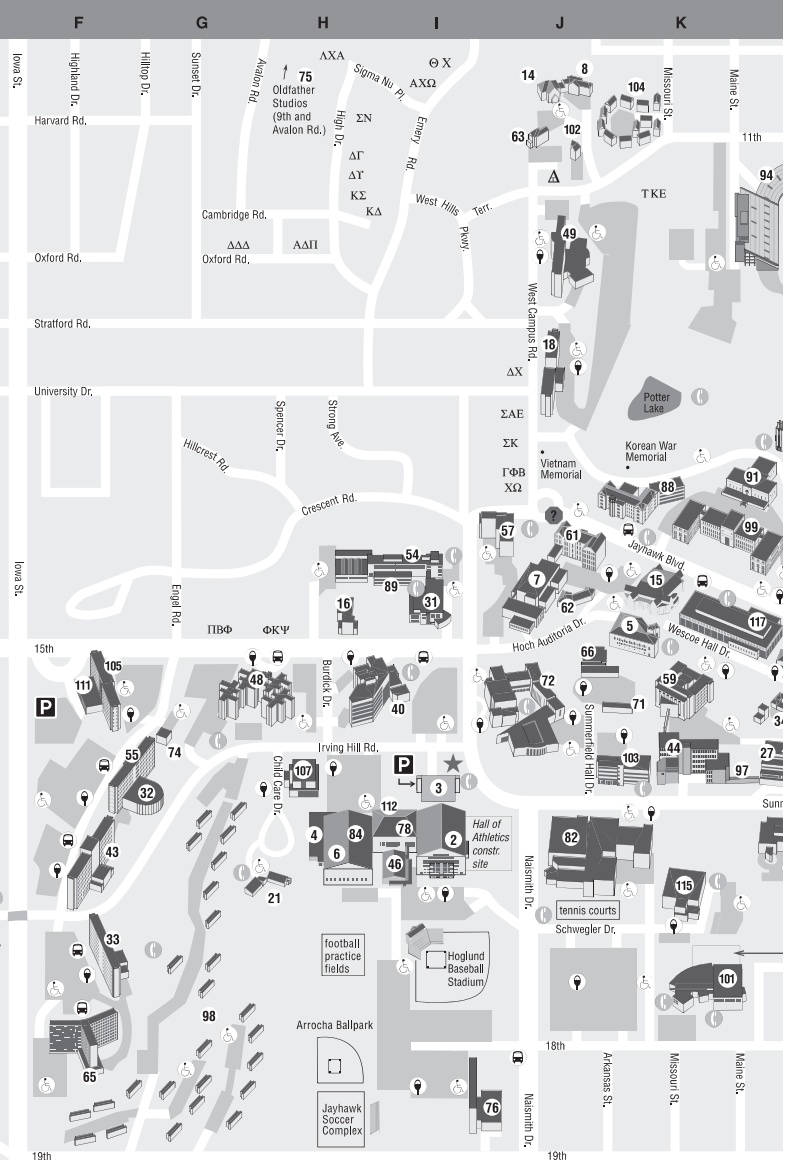


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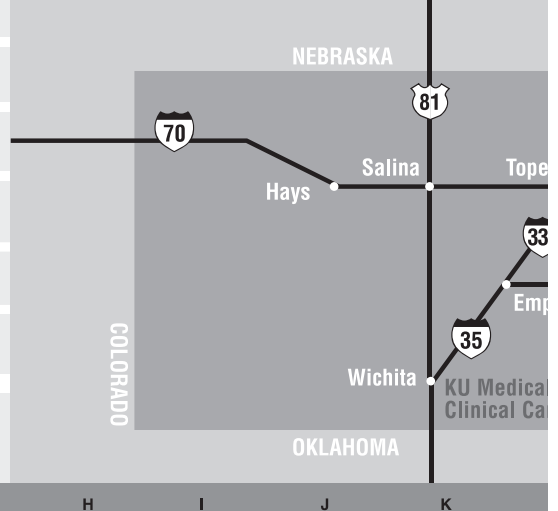
Lawrence Area



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Kansas





1. Adams Alumni Center-N4
2. Allen Fieldhouse-I7
3. Allen Fieldhouse Parking Garage-I7
4. Anderson Family Strength Center-H7
5. Anschutz Library-K6
6. Anschutz Sports Pavilion-H7
7. Art and Design Bldg.-J5
8. Baehr Audio-Reader Center KPR-J1
9. Bailey Hall-L5
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13. Bridwell Botany Research Laboratory Herbarium-D11
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16. Burt Hall-H5
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18. Carruth-O'Leary Hall-J3
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25. Danforth Chapel-N5
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29. Douthart Scholarship Hall-N5
30. Dyche Hall-M5
31. Eaton Hall-I5
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33. Ellsworth Residence Hall-F8
34. Facilities Operations-L6
35. Facilities Operations Warehouse-A8
36. Foley Hall-D11
37. Fraser Hall-N6
38. Gertrude Sellards Pearson Residence Hall-N1
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