HOW TO USE THIS BULLETIN

The information in this bulletin is current at the time of publication. If you are pursuing a degree, you are obligated to fulfill the requirements as they are listed in the bulletin for the semester in which you enroll in that program.

If the requirements change after you have enrolled in the program, you have the option of fulfilling either the old or new requirements. If you elect to fulfill the old requirements and find that necessary courses have been eliminated or substantially revised, you may substitute other courses with the approval of the dean of the college. If the revision is required by an external accreditation certification body, and this body submits a written statement to the University that the accreditation of a program or certification of its graduates is in jeopardy unless students fulfill the new requirements, the option of fulfilling the old requirements shall not apply.

If your study in the program or the University is interrupted for more than two semesters, your college dean will decide which program requirements must be fulfilled.

The University of Kentucky will provide each new student with one copy of the Bulletin. Reference copies are distributed to all high school counselors in the Commonwealth of Kentucky.

Find out more about the University of Kentucky at: www.uky.edu.

Information about the Kentucky Community & Technical College System is available at: www.kctcs.edu.

COMPLIANCE WITH REGULATIONS

The University of Kentucky is committed to a policy of providing educational opportunities to all qualified students regardless of economic or social status and will not discriminate on the basis of race, color, ethnic origin, national origin, creed, religion, political belief, sex, sexual orientation, marital status, age, veteran status, or physical or mental disability. Compliance with Title IX of the Educational Amendments of 1972, which prohibits sex discrimination, and with Title VI of the Civil Rights Act of 1964 is coordinated by the Office of Institutional Equity and Equal Opportunity, 13 Main Building, University of Kentucky, Lexington, KY 40506-0032, (859) 257-8927.

Efforts to comply with the laws and regulations applicable to people with disabilities are also coordinated by the Office of Institutional Equity and Equal Opportunity, as required by Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990.

Questions concerning compliance with regulations may be directed to UK’s Office of Institutional Equity and Equal Opportunity, or to the Director of the Office for Civil Rights, U.S. Department of Education, Washington, D.C.

Questions about admission to the University should be directed to the appropriate admissions office.

Qualified students with disabilities should contact the associate dean and director of the Disability Resource Center at (859) 257-2754 to request reasonable accommodation.

The University is in compliance with the Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendment of 1989. Questions may be directed to the Vice President for Student Affairs or the Office of the Associate Vice President for Human Resources.

OAK RIDGE ASSOCIATED UNIVERSITIES (ORAU)

Since 1946, students and faculty of the University of Kentucky have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 91 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE), the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the ORISE Catalog of Education and Training Programs, which is available at www.orau.gov/orise/educ.htm, or by calling either of the contacts below.

ORAU’s Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU’s members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research and support programs as well as services to chief research officers.

For more information about ORAU and its programs, contact:

Chuck Staben
Associate Vice President for Research
ORAU Councilor for University of Kentucky

Monnie E. Champion
ORAU Corporate Secretary (865-576-3306); or
Visit the ORAU Home Page at: www.orau.org

The University of Kentucky is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone number 404-679-4501) to award undergraduate, graduate, and professional degrees.
STATEMENT OF VISION, MISSION AND VALUES
Adopted by the University Board of Trustees
October 10, 2006

VISION
The University of Kentucky will be one of the nation’s 20 best public research universities, an institution recognized world-wide for excellence in teaching, research, and service and a catalyst for intellectual, social, cultural, and economic development.

MISSION
The University of Kentucky is a public, research-extensive, land grant university dedicated to improving people’s lives through excellence in teaching, research, health care, cultural enrichment, and economic development.

The University of Kentucky:
• Facilitates learning, informed by scholarship and research.
• Expands knowledge through research, scholarship and creative activity.
• Serves a global community by disseminating, sharing and applying knowledge.

The University, as the flagship institution, plays a critical leadership role for the Commonwealth by contributing to the economic development and quality of life within Kentucky’s borders and beyond. The University nurtures a diverse community characterized by fairness and equal opportunity.

VALUES
The values of the University guide its decisions and the behavior of its community. Its core values are:
• Integrity
• Academic excellence and academic freedom
• Mutual respect and human dignity
• Embracing diversity
• Personal and institutional responsibility and accountability
• Shared governance
• A sense of community
• Sensitivity to work-life concerns
• Civic responsibility
• Service to society

An Equal Opportunity University
The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. The right to inspect and review the student’s education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student’s education records that the student believes is inaccurate. Students may ask the University to amend a record that they believe is inaccurate. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student’s education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University as a directory information: name, address, telephone listing, e-mail address, photographs, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, full-time/part-time status*, and the most recent previous educational institution attended by the student.

The University may release information without the student’s consent where the information is classified as “Directory information.” The following categories of information have been designated by the University as directory information: name, address, telephone listing, e-mail address, photographs, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, full-time/part-time status*, and the most recent previous educational institution attended by the student.

Direct questions concerning this law and the University’s policy concerning release of academic information to the Student Records Office, (859) 257-7157. Students who do not wish such information released without their consent should notify the Student Records Office in writing. For complete information on (1) adding and removing a privacy flag to prevent the release of directory information; (2) the definition of education records; (3) the types of directory information that may be made available without the student’s consent; and (4) the annual FERPA notification deadline for prevention of release of directory information, please visit: www.uky.edu/Registrar/ferpa.html.

*For a description of full-time and part-time status, see Notes 1 and 2 under “Tuition and Fees” on page 23.

**NOTIFICATION OF RIGHTS UNDER FERPA FOR POSTSECONDARY INSTITUTIONS**

www.uky.edu/Registrar/ferpa.html

ANNUAL DISCLOSURE STATEMENT

**Student Right-to-Know Act (P.L. 101-542)**

University of Kentucky

2007-2008

Section 103 of the Student Right-to-Know and Campus Security Act of 1990 (Public Law 101-542) as amended by the Higher Education Technical Amendments of 1991 (Public Law 102-26) requires public disclosure of relevant graduation rate information for students enrolled in colleges and universities receiving federal financial assistance annually beginning July 1, 1993. The following statement is the University of Kentucky’s official disclosure statement in accordance with the requirements of P.L. 101-542 Section 103 for the 2007-2008 academic year.

**Graduation Rate of Entering Freshmen**

The graduation rate for all students entering the University of Kentucky as first-time freshmen during the 2000-2001 academic year was 59.1 percent. This graduation rate represents the percentage of students entering the University of Kentucky as first-time (i.e., new) full-time degree-seeking freshmen during the 2000 Summer and Fall terms who subsequently were awarded baccalaureate degrees by the University of Kentucky within six calendar years (i.e., through August 2006). This rate was calculated under definitions and procedures established by the National Collegiate Athletic Association (NCAA), and reported to the NCAA on the University’s 2006 Graduation Rate Disclosure Form in March 2007.

Final regulations and guidelines for the calculation, reporting, and disclosure of graduation rate information required under the Student Right-to-Know Act have not yet been issued by the Department of Education. Definitions of the entering student cohort in the Department of Education’s proposed regulations (Federal Register, July 10, 1992) and the NCAA Graduation Rate Disclosure Form differ slightly. However, the University has determined that the graduation rate information in the annual NCAA report is substantially comparable to the information required under the Student Right-to-Know Act, and is reporting that information at this time pending release of final federal regulations.

March 2007

*The information to be disclosed by July 1 of each year is “the graduation rate for the most recent cohort of entering students that all have had an opportunity to complete or graduate from their respective programs” in the specified completion period (which for the University of Kentucky is six years). The most recent entering cohort meeting this requirement is the 2000-2001 freshman class.*
2007 Fall Semester

February 1 - Thursday – Deadline for International, Health Sciences, Dietetics, Interior Design, and Nursing applications to be submitted to The Graduate School for the 2007 Fall Semester
February 1 - Thursday – Deadline for international applications to be submitted to the Graduate School for the 2007 fall semester
February 1 - Thursday – Deadline for submission of all application materials, College of Medicine, for the 2007 Fall Semester
February 1 - Thursday – Deadline for submission of all application materials for the School of Interior Design
February 15 - Thursday – Priority deadline for freshman applicants seeking admission to the Fall Semester
February 15 - Thursday – Priority filing deadline for the 2007-2008 academic year for financial aid for entering freshmen
March 1 - Thursday – Deadline for all applicants to the School of Architecture (College of Design)

March 26 - April 27 - Monday through Friday – Priority Registration for Fall 2007
April 1 - Sunday – Priority filing deadline for the 2007-2008 academic year for financial aid for continuing and transfer students
April 1 - Sunday – Deadline for NAAB Architecture transfer applicants
April 15 - Sunday – Deadline for applying with college deans for reinstatement after a second academic suspension for the 2007 Fall Semester
April 28 - June 16 - Saturday through Saturday – Add/Drop for registered students
May 15 - Tuesday – Deadline for students to schedule an appointment for reinstatement in all colleges for the 2007 fall semester
May 15 - Tuesday – Deadline for undergraduate international applicants to submit 2007 Fall Semester application

June 15 - Friday – Earliest date to submit application for regular and Early Decision Program admission, College of Medicine, for the 2008 Fall Semester
June 15 - Friday – Deadline for international applications to be submitted to the Graduate School for the 2008 spring semester
June 18 - July 19 – Summer Advising Conferences for new freshmen, Community College transfers, advanced standing (transfer) students, and readmitted students enrolling for the 2007 Fall Semester
July 16 - Monday – Deadline for applying for admission to a program in The Graduate School for the 2007 Fall Semester. Applications for readmission, post-baccalaureate status, and visiting student status will be accepted after the deadline.
July 20 - August 18 - Friday through Saturday – Add/Drop for registered students
August 1 - Wednesday – Final deadline for submission of all required documents to the Office of Admissions for undergraduate admission, for the 2007 Fall Semester, excluding freshmen who will be considered on a space-available basis
August 1 - Wednesday – Deadline for application for Early Decision Program, College of Medicine, for the 2008 Fall Semester
August 1 - Wednesday – Last day for students in the Employee Educational Program registered through August 1 to submit EEP form to Human Resource Services to confirm 2007 Fall Semester registration and tuition waiver
August 8 - Wednesday – Payment deadline of registration fees and/or housing and dining fees – if total amount due is not paid as indicated on the account statement, a late payment fee of 1.25% of the amount past due will be assessed
August 22 - Wednesday – First day of classes
August 22 - 28 - Wednesday through Tuesday – Late registration for returning students who did not priority register and new applicants cleared late for admission. A late fee is assessed students who register during this time period.
August 28 - Tuesday – Last day to add a class for the 2007 Fall Semester
August 28 - Tuesday – Last day to officially withdraw from the University or reduce course load and receive an 80 percent refund
August 28 - Tuesday – Last day for students in the Employee Educational Program who registered and/or changed schedules after August 1 to submit EEP form to Human Resource Services to confirm 2007 Fall Semester registration and tuition waiver

September 3 - Monday – Labor Day – Academic Holiday
September 12 - Wednesday – Last day to drop a course without it appearing on the student’s transcript
September 12 - Wednesday – Last day to change grading option (pass/fail to letter grade or letter grade to pass/fail; credit to audit or audit to credit)
September 19 - Wednesday – Last day to officially withdraw from the University or reduce course load and receive a 50 percent refund
September 20 - Thursday – Last day for filing an application for a December degree in college dean’s office
September 20 - Thursday – Deadline for submission of application and all required documents to the Office of Admissions for undergraduate applicants planning to attend November Advising Conference (including registration for spring classes)
October 15 - Monday – Midterm of 2007 Fall Semester

October 4 - Thursday – Last day for doctoral candidates for a December degree to submit a Notification of Intent to schedule a final examination in The Graduate School
October 15 - Monday – Deadline for submission of application and all required documents to the Office of Admissions for undergraduate applicants planning to attend November Advising Conference (including registration for spring classes)
October 15 - Monday – Midterm of 2007 Fall Semester
October 19 - Friday – Last day to withdraw from the University or reduce course load. Students can withdraw or reduce course load after this date only for “urgent non-academic reasons.”

October 29 - November 21 - Monday through Wednesday – Students are prohibited from changing academic majors

November 1 - Thursday – Deadline for completed AMCAS application, College of Medicine, for the 2008 Fall Semester
November 15 - Thursday – Last day for candidates for a December degree to schedule a final examination in The Graduate School
November 16 - Friday – 2008 Spring Semester Advising Conference for new and readmitted undergraduate students
November 21 - Wednesday – Fall Break – Academic Holiday
November 22 - 24 - Thursday through Saturday – Thanksgiving – Academic Holidays
November 28 - December 17 - Wednesday through Monday – Add/Drop for registered students for the 2008 Spring Semester
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 1 - Saturday</td>
<td>Application deadline for undergraduate admission to the Spring 2008 term</td>
</tr>
<tr>
<td>December 1 - Saturday</td>
<td>Deadline for submission of application and receipt of all materials for admission, readmission or transfer to the College of Law for the 2008 Spring Semester</td>
</tr>
<tr>
<td>December 1 - Saturday</td>
<td>Last day for candidates for a December graduate degree to sit for a final examination</td>
</tr>
<tr>
<td>December 3 - Monday</td>
<td>Deadline for applying for admission to a program in The Graduate School for the 2008 Spring Semester. Applications for readmission, post-baccalaureate status, and visiting student status will be accepted after the deadline.</td>
</tr>
<tr>
<td>December 5 - Wednesday</td>
<td>Last day for students in the Employee Educational Program registered through December 5 to submit EEP form to Human Resource Services to confirm 2008 Spring Semester registration and tuition waiver</td>
</tr>
<tr>
<td>December 7 - Friday</td>
<td>Final day of classes</td>
</tr>
<tr>
<td>December 10 - 14 - Monday</td>
<td>Monday through Friday – Final Examinations</td>
</tr>
<tr>
<td>December 12 - Wednesday</td>
<td>Deadline for applying to The Graduate School for readmission, post-baccalaureate status, and visiting student status for the 2008 Spring Semester</td>
</tr>
<tr>
<td>December 14 - Friday</td>
<td>Last day for candidates for a December degree to submit a thesis/dissertation to The Graduate School</td>
</tr>
<tr>
<td>December 14 - Friday</td>
<td>End of 2007 Fall Semester</td>
</tr>
<tr>
<td>December 17 - Monday</td>
<td>Final deadline for submission of grades to the Registrar’s Office by 4 p.m.</td>
</tr>
</tbody>
</table>

*These dates are under review and are subject to change.

### 2007-2008 Winter Intersession

- **October 15, 2007**: Monday – Priority deadline for admission to the Winter Intersession.
- **October 29 - November 21, 2007**: Monday through Wednesday – Priority registration for Winter Intersession.
- **November 16, 2007**: Friday – Winter Intersession registration for newly-admitted students.

### 2008 Spring Semester

- **February 25 - April 16**: Monday through Wednesday – Students are prohibited from changing their course load. Students can withdraw or reduce course load after this date only for “urgent non-academic reasons.”
- **January 21 - Monday**: Martin Luther King Birthday – Academic Holiday
- **January 22 - Tuesday**: Payment deadline of registration fees and/or housing and dining fees – if total amount due is not paid as indicated on the account statement, a late payment fee of 1.25% of the amount past due will be assessed.

### 2008 Fall Semester

- **February 1 - Friday**: Deadline for international applications to be submitted to The Graduate School for the 2008 Fall Semester.
- **February 6 - Wednesday**: Last day officially withdraw from the University or reduce course load and receive a 50 percent refund.

### Financial Aid

- **February 7 - Thursday**: Last day for filing an application for a May degree in college dean’s soffice
- **February 7 - Thursday**: Deadline for submission of application and all required documents to the Office of Undergraduate Admissions and University Registrar for change of residency status for 2008 Spring Semester
- **February 21 - Thursday**: Last day for doctoral candidates for a May degree to submit a Notification of Intent to schedule a final examination in The Graduate School
- **February 25 - April 16**: Monday through Wednesday – Students are prohibited from changing academic majors.
- **March 1 - Saturday**: Last day for submission of application for admission to the College of Law for the 2008 Fall Semester
March 3 - Monday – Midterm of 2008 Spring Semester
March 7 - Friday – Last day to withdraw from the University or reduce course load. Students can withdraw or reduce course load after this date only for “urgent non-academic reasons.”
March 10 - 15 - Monday through Saturday – Spring Vacation – Academic Holidays
March 24 - April 16 - Monday through Wednesday – Priority registration for the 2008 Fall Semester and both 2008 Summer Sessions
April 3 - Thursday – Last day for candidates for a May degree to schedule a final examination in The Graduate School
April 7 - Monday – Deadline for applying for admission to a program in The Graduate School for the 2008 four-week Summer Session. Applications for readmission, post-baccalaureate status, and visiting student status will be accepted after the deadline.
April 17 - Thursday – Last day for candidates for a May graduate degree to sit for a final examination
April 22 - Tuesday – Deadline for applying to The Graduate School for readmission, post-baccalaureate status, and visiting student status for the 2008 Four-Week Intersession
April 25 - Friday – Last day of classes
April 28 - May 2 - Monday through Friday – Final Examinations
April 29 - May 5 - Tuesday through Monday – Four-Week Intersession registration and add/drop continue for students enrolled in the 2008 Spring Semester
April 29 - June 4 - Tuesday through Wednesday – Eight-Week Summer Session registration and add/drop continues for students enrolled in the 2008 Spring Semester
April 29 - June 14 - Tuesday through Saturday – Add/Drop for priority registered students for the 2008 Fall Semester
May 2 - Friday – Last day for candidates for a May degree to submit a thesis/dissertation to The Graduate School
May 2 - Friday – End of 2008 Spring Semester
May 4 - Sunday – Commencement
May 5 - Monday – Final deadline for submission of grades to the Registrar’s Office by 4 p.m.
May 5 - August 16 – College of Pharmacy 15-Week Summer Term
*These dates are under review and are subject to change.

2008 Four-Week – First Summer Session
March 1 - Saturday – Applications available to apply for financial aid for the first summer session and/or the second summer session
March 15 - Saturday – Priority filing deadline for financial aid for the first summer session and/or the second summer session
April 7 - Monday – Deadline for applying for admission to a program in The Graduate School for the 2008 Four-Week Summer Intersession. Applications for readmission, post-baccalaureate status, and visiting student status will be accepted after the deadline.
April 15 - Tuesday – Final deadline for submission of application and all required documents to the Office of Admissions for undergraduate admission for the 2008 first summer session
April 22 - Tuesday – Deadline for applying to The Graduate School for readmission, post-baccalaureate status, and visiting student status for the 2008 first summer session
April 29 - May 5 - Tuesday through Monday – First summer session registration and add/drop continue for students enrolled in the 2008 Spring Semester
May 5 - Monday – Beginning of College of Pharmacy 15-Week Summer Term
May 5 - Monday – Advising Conference and Registration for new and readmitted students
May 5 - Monday – Deadline for applying for admission to a program in the Graduate School for the 2008 Eight-Week Summer Session. Applications for readmission, post-baccalaureate status, and visiting student status will be accepted after the deadline.
May 6 - Tuesday – Last day a student may officially drop a course or cancel registration with the University Registrar for a full refund of fees
May 6 - Tuesday – First day of classes
May 6 - 7 - Tuesday through Wednesday – Late registration for returning students not already registered and new applicants cleared late for admission. A late fee is assessed students who register late.
May 7 - Wednesday – Last day to add a class for the 2008 First summer session
May 7 - Wednesday – Last day to officially withdraw from the University or reduce course load and receive an 80 percent refund
May 7 - Wednesday – Last day for students in the Employee Educational Program to submit EEP form to Human Resource Services for tuition waiver for the 2008 First summer session
May 12 - Monday – Last day to drop a course without it appearing on the student’s transcript
May 12 - Monday – Last day to change grading option (pass/fail to letter grade or letter grade to pass/fail; credit to audit or audit to credit)
May 13 - Tuesday – Last day to officially withdraw from the University or reduce course load and receive a 50 percent refund
May 14 - June 4 - Wednesday through Wednesday – Second summer session registration and add/drop for students who entered the University in the 2008 first summer session
May 19 - Monday – Midterm of 2008 Four-Week Intersession
May 21 - Wednesday – Last day to withdraw from the University or reduce course load. Students can withdraw or reduce course load after this date only for “urgent non-academic reasons.”
May 21 - Wednesday – Deadline for applying to The Graduate School for readmission, post-baccalaureate status, and visiting student status for the 2008 Eight-Week Summer Session
May 22 - Thursday – Payment deadline of registration fees and/or housing and dining fees – if total amount due is not paid as indicated on the account statement, a late payment fee of 1.25% of the amount past due will be assessed
May 26 - Monday – Memorial Day – Academic Holiday
May 28 - Wednesday – Last day for doctoral candidates for an August degree to submit a Notification of Intent to schedule a final examination in The Graduate School
June 3 - Tuesday – Final Examinations
June 3 - Tuesday – End of 2008 Four-Week Intersession
June 4 - Wednesday – Deadline for submission of application and all required documents to the Office of Undergraduate Admission and University Registrar for change of residency status for the Four-Week and the Eight-Week Summer Sessions
June 6 - Friday – Final deadline for submission of grades to the Registrar’s Office by 12 noon
*These dates are under review and are subject to change.

2008 Eight-Week – Second Summer Session
March 1 - Saturday – Applications available to apply for financial aid for the 4 week and/or the 8 week summer term(s)
March 15 - Saturday – Priority filing deadline for financial aid for the 4 week and/or the 8 week summer term(s)
April 29 - June 5 - Tuesday through Thursday – Eight-Week Summer Session registration and add/drop continue for students enrolled in the 2008 Spring Semester
May 5 - Monday – Deadline for applying for admission to a program in The Graduate School for the 2008 Eight-Week Summer Session. Applications for readmission, post-baccalaureate status, and visiting student status will be accepted after the deadline.
May 14 - June 4 - Wednesday through Wednesday – Eight-Week registration and add/drop for students who entered the University in the 2008 Four-Week Intersession
May 15 - Thursday – Final deadline for submission of application and all required documents to the Office of Admissions for undergraduate admission for the 2008 Eight-Week Summer Session
May 21 - Wednesday – Deadline for applying to The Graduate School for readmission, post-baccalaureate status, and visiting student status for the 2008 Eight-Week Summer Session
May 28 - Wednesday – Last day for doctoral candidates for an August degree to submit a Notification of Intent to schedule a final examination in The Graduate School
June 3 - 4 - Tuesday and Wednesday – Registration for new graduate students
June 4 - Wednesday – Advising Conference and Registration for new and readmitted students including registration for Evening and Weekend
June 4 - Wednesday – Deadline for submission of application and all required documents to the Office of Undergraduate Admission and University Registrar for change of residency status for the Eight-Week Summer Session
June 5 - Thursday – Last day a student may officially drop a course or cancel registration with the University Registrar for a full refund of fees
June 5 - Thursday – First day of classes
June 5 - 6 - Thursday through Friday – Late registration for returning students not already registered and new applicants cleared late for admission. A late fee is assessed students who register late.
June 6 - Friday – Last day to enter an organized class for the 2008 Eight-Week Summer Session
July 10 - Thursday – Midterm of 2008 Eight-Week Summer Session
July 14 - Monday – Deadline for applying for admission to a program in The Graduate School for the 2008 Fall Semester. Applications for admission, post-baccalaureate status, and visiting student status will be accepted after the deadline.
July 23 - Wednesday – Last day for candidates for an August graduate degree to sit for a final examination
July 23 - Wednesday – Deadline for applying to The Graduate School for readmission, post-baccalaureate status, and visiting student status for the 2008 Fall Semester
July 30 - Wednesday – Last day for students in the Employee Educational Program who registered through July 30 to submit EEP form to Human Resource Services to confirm 2008 Fall Semester registration and tuition waiver

College of Law Academic Calendar

2007 Fall Semester
August 20 - Monday – Add/Drop
August 21 - Tuesday – Add/Drop
August 21 - Tuesday – Class work begins
August 21 - Tuesday – Last day a student may officially drop a course or cancel registration with the University Registrar for a full refund of fees
August 22 - Wednesday – Payment deadline of registration fees and/or housing and dining fees – if total amount due is not paid as indicated on the account statement, a late payment fee of 1.25% of the amount past due will be assessed
August 28 - Tuesday – Last day to officially withdraw from the University or reduce course load and receive an 80 percent refund
September 3 - Monday – Labor Day – Academic Holiday
September 12 - Wednesday – Last day to change grading option (credit to audit or audit to credit)
September 12 - Wednesday – Last day to drop a course without it appearing on student’s transcript

2008 Spring Semester
January 7 - Monday – Add/Drop
January 8 - Tuesday – Add/Drop
January 8 - Tuesday – Last day a student may officially drop a course or cancel registration with the University Registrar for a full refund of fees
January 16 - Wednesday – Last day to add a class for the 2008 Spring Semester
January 16 - Wednesday – Last day to officially withdraw from the University or reduce course load and receive an 80 percent refund
January 21 - Monday – Martin Luther King Birthday – Academic Holiday
January 22 - Tuesday – Payment deadline of registration fees and/or housing and dining fees – if total amount due is not paid as indicated on the account statement, a late payment fee of 1.25% of the amount past due will be assessed
January 30 - Wednesday – Last day to change grading option (credit to audit or audit to credit)
January 30 - Wednesday – Last day to drop a course without it appearing on student’s transcript
February 6 - Wednesday – Last day to officially withdraw from the University or reduce course schedule and receive a 50% refund
February 7 - Thursday – deadline to apply for Kentucky residency for this semester
February 7 - Thursday – Last day to officially withdraw from a course
March 5 - Wednesday – Last day for submission of application for admission for 2008 Fall Semester
March 7 - Friday – Last day to withdraw from a course
March 7 - Friday – Last day to withdraw from the University or reduce course schedule

2008 Summer Session
June 4 - Wednesday – Registration
June 4 - Thursday – Deadline to apply for Kentucky residency for this semester
June 5 - Thursday – Last day a student may officially drop a course or cancel registration with the University Registrar for a full refund of fees
June 5 - Thursday – Class work begins
June 9 - Monday – Last day to officially withdraw from the University or reduce course load and receive an 80 percent refund
June 9 - Monday – Last day to add a class for the 2008 Summer Session
June 16 - Monday – Last day to change grading option (credit to audit or audit to credit)
June 16 - Monday – Last day to drop a course without it appearing on student’s transcript
2007-2008 University Calendar

College of Medicine

2007 Fall Semester
July 26 & 27 - Thursday & Friday – Third-year general orientation
July 30 - Monday – Fourth-year rotations begin
July 30 - Monday – Last day for fourth-year students to withdraw from the College of Medicine for a full refund of tuition & fees
July 30 - Monday – First-year students begin classes
July 30 - Monday – Last day for first-year students to withdraw from the College of Medicine for a full refund of tuition & fees
July 30 - Monday – Third-year students begin rotations
July 30 - Monday – Last day for third-year students to withdraw from the College of Medicine for a full refund of tuition & fees
August 6 - Monday – Last day for first, third, and fourth-year students to withdraw from the College of Medicine and receive an 80% refund
August 6 - Monday – Second-year students begin classes
August 6 - Monday – Last day for second-year students to withdraw from the College of Medicine for a full refund of tuition & fees
August 13 - Monday – Last day for second-year students to withdraw from the College of Medicine and receive an 80% refund
August 22 - Wednesday – Tuition deadline for all students
September 3 - Monday – First and second-year students – Labor Day Holiday
September 19 - Wednesday – Last day to withdraw from the College of Medicine and receive a 50% refund
November 1 - Thursday – Last day for candidates applying to the College of Medicine to submit their application to AMCAS
November 22 - 25 - Thursday through Sunday – First and second-year students – Thanksgiving Holiday
December 15 - Saturday – Winter Break begins

2008 Spring Semester
January 2 - Wednesday – All students register and return to class
January 2 - Wednesday – Last day to withdraw from the College of Medicine and receive a full refund
January 9 - Wednesday – Last day to withdraw from the College of Medicine and receive an 80% refund
January 14 - Monday – First and second year students – Martin Luther King Jr.’s Birthday Holiday
January 15 - Tuesday – Last day for candidates applying to the College of Medicine to submit their supplemental application materials
January 22 - Tuesday – Tuition deadline for all students
February 6 - Wednesday – Last day to withdraw from the College of Medicine and receive a 50% refund
February 25 - 29 - Monday through Friday – Spring Break for first-year students
March 10 - 14 - Monday through Friday – Spring Break for second-year students
April 24 & 25 - Thursday through Friday – Mini Break for first-year students
May 2 - Friday – End of academic year for second-year students
May 9 - Friday – End of academic year for fourth-year students
May 10 - Saturday – College of Medicine Graduation
May 26 - Monday – Memorial Day Holiday for first-year students
June 27 - Friday – End of academic year for first-year students
June 30 - Monday – Special graduation date
July 11 - Friday – End of academic year for third-year students
July 12, 14-19 & 21-23 – CPX Exam

Enrollment Dates
First Year – 7/30/07 to 6/27/08
Second Year – 8/6/07 to 5/2/08
Third Year – 7/26/07 to 7/11/08
Fourth Year – 7/30/07 to 5/9/08
Winter Break – 12/15/07 to 1/1/08
Graduation – 5/10/08

College of Dentistry

DMD, Orofacial Pain, Orthodontics and Periodontics Programs

Fall 2007
June 11 - Monday – Academic Year Begins for 4th Year DMD Students (Externship)
July 4 – Wednesday – Independence Day – Academic Holiday
July 5 - Thursday – Academic Year Begins for 1st Year Periodontics Students
July 9 - Monday – Academic Year Begins Orofacial Pain Students
July 11 - Wednesday – Academic Year Begins for 2nd and 3rd Year Orthodontics Students
July 23 - Monday – Academic Year Begins for 2nd and 3rd Year Periodontics Students
July 30 - Monday – Academic Year Begins for 1st, 2nd, and 3rd Year DMD Students
August 6 - Monday – Clinical Year Begins for 4th Year DMD Students
August 6 - Monday – Academic Year Begins for 1st Year Orthodontics Students
September 3 - Monday – Labor Day – Academic Holiday
November 22, 23 - Thursday & Friday – Thanksgiving Holidays: Academic Holidays
December 14 - Friday – Winter Vacation Begins After Last Class or Clinic for DMD, Orthodontics and Periodontics Students
December 21 - Friday – Winter Vacation Begins After Last Class or Clinic for Orofacial Pain Students

Spring 2008
January 2 - Wednesday – Classes Resume for All Students: DMD, Orofacial Pain, Orthodontics, and Periodontics
January 21 - Monday – Martin Luther King Jr. Birthday Observed: Academic Holiday
March 31 - April 4 – Spring Break for DMD, Orthodontics and Periodontics Students
April 9-11 – Wednesday – Friday AAOP Scientific Conference/Spring Break for Orofacial Pain Students
May 2 – Friday – Academic Year Ends for Graduating DMD Students
May 4 - Sunday – University Commencement College of Dentistry Hooding Ceremony
May 23 - Friday – Academic Year Ends for 3rd Year Graduating Orthodontics Students
May 26 - Monday – Memorial Day: Academic Holiday
June 6 – Friday – Academic Year Ends for 3rd Year DMD Students
June 13 – Friday – Academic Year Ends for 2nd Year DMD Students
June 20 – Friday – Academic Year Ends for 1st and 2nd Year Orthodontics Students
June 26 – July 8 – Break for 1st and 2nd Year Orthodontics Students
June 27 - Friday – Academic Year Ends for 1st Year DMD and Orofacial Pain Students
June 27 - July 7 – Break for Orofacial Pain Students
June 30 – Friday – Academic Year Ends for 1st, 2nd, and 3rd Year Periodontics Students
July 1 – July 18 – Break for 2nd and 3rd Year Periodontics Students
A Message From President Lee T. Todd Jr.

There has never been a more exciting time to be at the University of Kentucky. UK is in the midst of one of this nation’s boldest journeys – to transform UK into one of the 20 best public research universities in the nation. Our national aspirations were made clear in our Top 20 Business Plan. The Business Plan is a unique approach for public universities as it laid out a 14-year, detailed financial analysis of the resources it will take to transform the University into a premier public research institution.

Our journey to Top 20 did not start with the formation of the Business Plan, however. Since 1997 (when Kentucky legislators mandated UK become a Top 20 public research university), our enrollment, graduation rates, endowment, research funding, and annual giving have all soared. Our Top 20 dreams will continue to depend on our success in the classroom. Buoyed by our excellent students, faculty, and staff, UK boasts over 80 national rankings for academic excellence. We are currently ranked 35th among all public research universities, according to our Business Plan. Already many of our programs rank among the nation’s best, including the Martin School of Public Policy and Administration, which is ranked 6th in the category of public finance and budgeting, the 8th-ranked College of Pharmacy, the Patterson School of Diplomacy’s program in International Relations is ranked 18th, the 20th-ranked Rural Medicine program in the College of Medicine, and the 29th-ranked College of Nursing.

A meaningful college experience is not only about classroom knowledge – it also is about personal growth. At UK, students can find growth opportunities in more than 300 campus organizations and activities ranging from athletic events to debate teams to arts organizations. Our students hail from 117 foreign countries, all 50 states and every county in Kentucky. You will have the opportunity to travel the nation and abroad, learning about the many cultures that populate our world. Through this diverse and enriching environment, students gain another dimension to their education and become more equipped to excel in our rapidly changing world.

With its tradition of excellence and promise of continued growth, the University of Kentucky is a great place to be a student. Just ask the 215,000-plus alumni. Among them are Nobel and Pulitzer Prize winners, a U.S. ambassador, an astronaut, a Hollywood actress, a screenwriter, numerous governors, legislators, university presidents, business leaders, and best-selling authors. Today we stand at a critical point as UK strives to even greater heights. With vigilance and vigor, the University of Kentucky is poised to take its place among the nation’s elite.

Sincerely,

Lee T. Todd Jr.
President
average. UK students compete successfully for prestigious scholarships and awards, such as the Fulbright, Truman, Goldwater and Marshall. UK had its 12th Truman Scholar named in 2005. Also in 2005, UK was selected to participate in the Beckman Foundation Scholarship program for the second time. This program allows UK to award grants of $17,600 to students to support their own research projects.

Since 1997, the University has pursued an ambitious goal of becoming a Top 20 public research university by the year 2020. UK President Lee T. Todd Jr. has embraced this goal in a way that promises an impact on every Kentucky resident.

“As the state’s flagship institution, the University of Kentucky is mindful of its responsibility to help all Kentuckians,” Todd says. “Our land-grant mission calls on us to make a positive impact across the state. We need to be an educational leader, while remaining accessible to all Kentuckians. We need to be a cultural leader, sharing new ideas and opportunities across the state. And we need to be leading Kentucky’s charge into the new economy. We must be the catalyst for a new Commonwealth.”

The University is working aggressively to achieve its Top 20 goal. In December 2005, UK released its Top 20 Business Plan, a detailed financial analysis of the resources it will take to transform the University into a premier public research institution. The plan was widely supported by Kentucky legislators during the 2006 legislative session, as UK received full funding for the plan starting in 2007-08.

UK boasts over 90 national rankings for academic excellence. UK is currently ranked 35th among all public research universities for overall excellence, according to the Top 20 Business Plan. U.S. News & World Report ranked several of UK’s graduate programs among the nation’s best. The Martin School of Public Policy and Administration is ranked 6th in the category of public finance and budgeting and the College of Pharmacy is ranked 8th. The College of Medicine’s family medicine program is 17th and its rural medicine program is 18th, and the College of Nursing’s master’s program is ranked 29th. Foreign Policy magazine named the Patterson School of Diplomacy and International Commerce one of the “Top 20 Masters Programs in International Affairs,” ranking it 18th. The College of Health Sciences’ physical therapy graduate program is ranked 35th, the College of Social Work’s master’s program is 38th, and the College of Law is ranked among the top 50 public institutions. In addition, U.S. News & World Report ranked the Gatton College of Business and Economics’ undergraduate program 37th among public universities and the College of Engineering’s undergraduate program 56th among the nation’s public schools that offer a doctorate in engineering.

In 2000, officials launched The Campaign for the University of Kentucky, a $600 million fund-raising effort to enhance faculty, students, facilities, academic programs, and public service. The Campaign raised over $618 million in just over five years – surpassing its original goal of $600 million. In the fall of 2003 University officials announced plans to expand its fund-raising goal by an additional $400 million over the next four years, bringing the University’s new total goal to $1 billion. UK is well on its way, having already raised more than $990 million.

With its well-manicured landscape and landmark buildings, UK’s campus also offers great facilities that advance the scholarship of its students and the research endeavors of its faculty. The William T. Young Library is among the world’s leading research libraries; its book endowment is the largest among public universities. Its broad scope of technology offers students, faculty, and Kentucky residents special access to the most up-to-date information from online journals, government publications, and private studies, as well as more traditional materials.

During the last fiscal year, UK faculty received more than $290 million in extramural grants and contracts. During the last fiscal year alone, research grants and contracts from out-of-state sources resulted in a $410.6 million contribution to the Kentucky economy, including $200.1 million in personal income.

Research at the University of Kentucky is a dynamic enterprise encompassing both traditional scholarship and emerging technologies. In over 50 research centers and institutes, UK researchers are discovering new knowledge, providing a rich training ground for the next generation of researchers, and advancing the economic growth of the Commonwealth of Kentucky. Several centers excel in the services offered to the public. The Center for Manufacturing has assisted more than 500 small and mid-sized industrial firms throughout the state. The Gluck Equine Research Center is one of only three facilities of its kind in the world, conducting research into diseases of the horse.

Because UK is one of the few universities in the country with a research and teaching campus and a medical center in one central location, multidisciplinary research is particularly strong. The ASTeCC (Advanced Science and Technology Commercialization Center) building in the center of campus provides lab space for faculty affiliates who represent a variety of colleges and departments and is a hub for multidisciplinary research collaboration and commercialization. UK researchers engage in projects with professors at the University of Louisville, Murray State University, Eastern Kentucky University, and other public and private institutions across Kentucky, in other states and abroad.

The UK Chandler Medical Center was established in 1957 and is one of the nation’s finest academic medical centers. The faculty, students and staff of our young, dynamic Medical Center take pride in achieving excellence in education, patient care, research, and community service. The 473-bed UK Chandler Hospital and Kentucky Children’s Hospital are supported by a growing and dynamic faculty and staff. The University is in the process of constructing a new $450 million UK Chandler Hospital, which will serve as a cornerstone for the Commonwealth’s Medical Campus of the Future. UK HealthCare serves a unique role in the Commonwealth, as the only Level I Trauma Center in Central and Eastern Kentucky. UK Chandler Hospital and Kentucky Children’s Hospital care for the most critically injured and ill patients in this half of Kentucky.

UK has demonstrated its commitment to partnerships with business and other institutions of higher learning. In Lexington, UK is shaping a better relationship with the community by becoming more active in life throughout the city, especially downtown.

But UK contributes far beyond the borders of Fayette County. UK researchers are dedicated to conducting the type of research that will make an impact on Kentucky families. UK is working to help alleviate some of the nagging issues that have held Kentucky back through its Commonwealth Collaboratives initiative. The plan calls for the University to conduct research and participate in projects to solve some of Kentucky’s most pressing problems. UK faculty and researchers are leading efforts to battle conditions in these areas to improve educational, social, and economic conditions in all 120 Kentucky counties.

UK’s agenda is simple. It is to accelerate the movement toward academic excellence and to become known worldwide for the quality of its academic programs, its commitment to undergraduates, its success in building a diverse community, and its engagement with the larger society. That is what the University of Kentucky is all about.

UK is forging ahead to meet the changing demands of global citizens. While touching countless lives, UK’s greatest impact is felt at home. Indeed, the campus of the University of Kentucky is the Commonwealth of Kentucky.
University of Kentucky Alumni Association

The University of Kentucky Alumni Association is the official records keeper of alumni records. It is a joy to follow the success of UK alumni throughout the world. It is with respect and admiration that the UK Alumni Association established the Hall of Distinguished Alumni in 1965. The roster contains the names of Nobel laureates, artists, scientists, inventors, entertainers, governors, and leaders in business and industry. The next induction of honorees to the UK Hall of Distinguished Alumni will take place in 2010. You can read the biographies of these illustrious alumni online at: www.ukalumni.net.

Among alumni recently honored by their college are the alumni listed below. You can find the biographies of these alumni and those previously honored by visiting each college online at: www.uky.edu.

College of Agriculture and School of Human Environmental Sciences
Eleanor A. Botts '57
Bradley Brown '61
Charles Cornett '60
Tom Curtsinger '48, '67
Cecil Hall Dyer '55, '60
Rufas Fugate '55
Merrill Hammons '53
Michelle M. Hennessey '67
Roy Hunt '43
Dan Hutson '48
Shirley Howard '58, '63
Ilus Ray Mackey '49
Bonnie Kirby Tanner '63
Clifton Taylor '54, '67
Myra L. Tobin '62

College of Arts and Sciences
Constantine W. Curris '62, '67
Stephen B. Bright '71, '75
Arthur B. Still '80
Beverly Eaves Perdue '69

Gatton College of Business and Economics
Gerry Benjamin '79
Marian Guinn '84, '86
Rodney N. Lanthorne '67
Rodney McMullen '81, '82
Kenneth N. Robertson '60

College of Communications and Information Studies, School of Journalism and Telecommunications
David Thompson '74 BA
Terry L. Birdwhistell '95
Loretta J. Bradley '63, '65
Jack J. Early '54, '56

College of Dentistry
Frank Dolwick '71
Gary Maynard '67
Jeff Okeson '72

College of Engineering
John C. Bailey '61
L. Berkley Davis Jr.
R. William Jewell '63
Joseph B. Lyons Jr. '58 (posthumously)

College of Fine Arts, School of Music
Timothy S. Brophy '98
Phyllis Jenness '58

College of Health Sciences
40th Anniversary Celebration
Recognizes 40 Alumni

College of Law
Pierce W. Hamblin '77
G. Chad Perry, III '51
Julia Kurtz Tackett '71

College of Medicine
Forrest W. Calico '66
Edward H. Oldfield '73

College of Nursing
Nancy Dickenson-Hazard '68
Sue Thomas Hegyvary '65
Alice Gertrude Herman '72
Cynda Hylton Rushton '78
Elizabeth Elder Weiner '75

College of Public Health
M. Raynor Mullins '68
Clay Simpson '60

College of Social Work
Betsy Nowland-Curry '74
ADMISSION PHILOSOPHY

The Office of Undergraduate Admission and University Registrar supports the mission of the University of Kentucky. Consistent with the University’s mission of research, service and teaching, the university seeks to enroll and retain an academically talented student body that enriches the learning community and is representative of the diverse society it serves. The following admission policies reflect this philosophy.

GENERAL INFORMATION

The Director of Undergraduate Admission and University Registrar authorizes the admission of all undergraduate students to the University. Students should direct all admissions inquiries to:

Office of Undergraduate Admission and University Registrar
100 W. D. Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054
(859) 257-2000
www.applyuk.com

Undergraduates at UK enroll in one of twelve colleges. Each college is supervised by an academic dean and is usually made up of several academic departments that offer different major fields of study.

The general University admission requirements and procedures for freshmen and transfer students are outlined below. All applicants should be aware that certain colleges and some programs within colleges have additional admission standards and criteria beyond those for general University admission. Refer to Special Application Dates and Procedures on page 17 for information on deadlines and procedures for particular colleges and programs. Detailed information on admission criteria is provided in the college sections of this Bulletin.

The University of Kentucky provides educational opportunities to all qualified students regardless of economic or social status. The University does not discriminate on the basis of race, color, religion, sex, marital status, beliefs, age, national origin, sexual orientation, or physical or mental disability.

FRESHMAN ADMISSION

TO THE UNIVERSITY

The University of Kentucky subscribes to a selective admission policy. Admission for freshman applicants is based on: a) high school grades; b) national college admission test results; and c) successful completion of the required pre-college curriculum. Applicants may submit official scores from either the ACT Assessment or the SAT I: Reasoning Test. Official test scores from either the ACT or SAT meeting the selective criteria are offered admission. Applicants who have completed the pre-college curriculum, but do not have the requisite grade-point average, test scores or both for selective admission, may have their admission decisions deferred. A portion of the freshman class may be admitted from this group of applicants. If, after the application deadline, spaces in the class remain to be filled, admission will be offered to deferred-decision applicants on a competitive basis. Admission will be offered first to those applicants with the strongest records and offers will continue until the class is filled.

Strength of record is a relative term and refers to an applicant’s record in comparison with those of all other freshman applicants. Strength of record may be determined by a number of different factors beyond selective admission criteria. While grades and test scores are important in this assessment, course selection, senior year schedule, honors and Advanced Placement courses, extracurricular and leadership activities and a student’s potential to benefit from or contribute to the learning community may also be considered. The overriding concern will always be for the student’s potential to be successful in meeting the academic expectations at the University.

Pre-college Curriculum

Incoming freshmen should have the high school preparation necessary for academic success at the college level. To be eligible for consideration
at UK under the policy outlined above, an applicant must have successfully completed the following high school courses as a minimum:

**English/Language Arts — 4 credits**
- English I, II, III, IV

**Mathematics — 3 credits**
- Algebra I, Algebra II and Geometry (or more rigorous courses in mathematics)

**Science — 3 credits**
- Biology I, Chemistry I, Physics I or life science, physical science, and earth/space science (at least one lab course)

**Social Studies — 3 credits**
- From U.S. History, Economics, Government, World Geography and World Civilization (or comparable courses)

**Foreign Language — 2 credits**
- Two credits in the same foreign language or demonstrated competency

**Health — 1/2 credit**

**Physical Education — 1/2 credit**

**History and Appreciation of Visual, Performing Arts — 1 credit**
- History and appreciation of visual and performing arts or another arts course that incorporates such content

**Electives — 5 credits**
- Recommended strongly: one or more courses that develop computer literacy

Additionally, high school students are encouraged to complete at least one year of mathematics beyond Algebra II.

A total of 22 credits or more must be completed in high school. Applicants should contact the Office of Undergraduate Admission and University Registrar for information concerning exceptions to this policy.

### Special Admission Colleges and Programs

Some colleges and programs within colleges at UK have admission standards and criteria that are higher than those for general admission to the University. Additionally, some programs have deadlines and application procedures that differ from those for general University admission. Refer to Special Application Dates and Procedures on page 17 for information on procedures and deadlines for special admission programs. Detailed information on admission criteria is provided in the college sections of this Bulletin.

### Matriculation Into a Degree-Granting College

All undergraduate degrees are conferred by the college offering the program of study (major). Upon admission to the University of Kentucky, all students will be enrolled either in a specific college or as undeclared students in Undergraduate Studies. With the help of academic advisors, students in Undergraduate Studies will work to select a major and gain access to one of the University’s colleges.

### APPLICATION PROCEDURES FOR FRESHMEN

Prospective freshmen are strongly encouraged to submit applications to the Office of Undergraduate Admission and University Registrar early in their senior year. While the deadline for application is February 15, early application can have a positive impact on housing, financial aid, institutionally administered merit-based scholarships, privately funded scholarships and other ancillary areas. All freshman applicants should submit the following:

1. the application form for undergraduate admission;
2. a non-refundable application processing fee;
3. official high school transcript; and
4. official test scores from either the American College Test (ACT) or the SAT I: Reasoning Test. “Official ” scores are reported directly from the testing agency to the Office of Undergraduate Admission and University Registrar. Test scores appearing on the high school transcript are not considered “official” reports.

High school students are strongly encouraged to take the ACT or SAT I late in their junior year and again early in their senior year. When registering for the test, please request scores to be sent to UK. It is a mistake to withhold test scores as this can cause added expense and possible delay in the processing of the application. Please request scores from all test administrations so that the Office of Undergraduate Admission and University Registrar can work with the complete test history. High school guidance counselors can provide students with registration forms, information about registration deadlines, test dates and locations.

### High School Students with Exceptional Ability

Through UK’s Exceptional Ability program, highly motivated students can enroll in classes at UK before they graduate from high school. Exceptional high school students may be offered admission to UK after a thorough evaluation of their academic record. Students seeking such consideration must submit an application form, a non-refundable fee, official scores from the ACT Assessment or SAT I: Reasoning Test, an official high school transcript and a letter from their high school principal or guidance counselor stating the benefit to the student of entering college prior to high school completion.

### High School Equivalency Certificates

The University considers admission from freshman applicants who are not high school graduates but who present a valid High School Equivalency Certificate and General Education Development test scores. Applicants must also take the ACT Assessment (or SAT I: Reasoning Test) and have the results sent directly to the Office of Undergraduate Admission and University Registrar from the testing agency.

### TRANSFER ADMISSION TO THE UNIVERSITY

Students at other colleges or universities, including community colleges, are eligible to transfer to UK if they:

1. would have been selectively admitted to UK when they entered the first institution attended provided they have a cumulative grade-point average of 2.0 or better for all college-level work attempted. Applicants must also have a cumulative grade-point average of 2.0 or better for all college-level work attempted at the last institution attended, provided at least 12 credit hours (or the equivalent thereof) was attempted there.

or

2. would not have been selectively admitted to UK but have completed 24 semester hours or more and achieved a cumulative grade-point average of 2.0 or better for all college and university work attempted. Applicants must also have a cumulative grade-point average of 2.0 or better for all work attempted at the last institution attended.

Please note that grade-point averages are computed by the Office of Undergraduate Admission and University Registrar and reflect the grade and credit for each course attempted, regardless of the practice of the offering institution of waiving the low grade for a repeated course.

Refer to the University Calendar on page 4 for general University admission deadlines.

### Special Admission Colleges and Programs

Some colleges and programs within colleges at UK have additional admission standards and criteria beyond those for general admission to the University. Also, some programs have deadlines and application procedures that differ from those for general University admission. Refer to Special Application Dates and Procedures on page 17 for information on procedures and deadlines for special admission programs. Detailed information on admission criteria is provided in the college sections of this Bulletin.
TRANSFER OF CREDIT

Kentucky Postsecondary Education Transfer Policy

The General Education Transfer Policy facilitates the transfer of credits earned in general education and twelve hours of course work in a major for students moving from one Kentucky public college or university to another Kentucky public college or university. The general education core transfer component reflects the distribution of discipline areas universally included in university-wide lower division general education requirements for the baccalaureate degree. Under this agreement, a student may satisfy the general education discipline requirements at their current college and have that requirement completion accepted at the university or college to which they may transfer. In addition, the Baccalaureate Program Transfer Frameworks identify 12 hours of course work in a major which may be successfully transferred. Each framework represents a specific guide to the exact courses a student needs; therefore, students who plan to transfer from one public institution to another to complete their Baccalaureate degree should work closely with their advisor to take full advantage of the Policy. For more specific information about the Policy, contact the Registrar’s Office, 12 Funkhouser Building, (859) 257-9532.

Credit Earned at Kentucky Community and Technical Colleges and Other Institutions

The University accepts collegiate-level degree credits earned at a fully accredited college or university. “Fully accredited” means that the institution is a member in good standing of one of the six regional academic accrediting associations. Transfer work from institutions outside the United States is evaluated on an individual basis from the official transcripts.

The Office of Undergraduate Admission and University Registrar generally determines the transferability of completed course work. Then, the dean of the college in which the student enrolls will determine how the transferred course work applies toward degree requirements. When the student attends the Advising Conference, an advisor will explain how the transfer work has been applied. However, students may want to consult individual departments in advance, so they may become familiar with degree requirements in their prospective program.

The transferability of course credit earned at two-year institutions is limited to a total of 67 semester hours.

Transfer applicants should note that regardless of the number of transfer hours the University may accept, all candidates for a bachelor’s degree must complete 30 of the last 36 hours of their program at UK.

APPLICATION PROCEDURES FOR TRANSFER STUDENTS

Transfer applicants from other colleges and universities should request an application packet from the Office of Undergraduate Admission and University Registrar. Applicants must submit the following to the Office of Undergraduate Admission and University Registrar:

1. an application for admission;
2. an official transcript from each college or university attended, containing a complete record of all courses completed at the time of application;
3. a roster of the courses in which the student is currently enrolled;
4. a final official transcript of any additional work completed before entering the University; and
5. a non-refundable application processing fee.

Refer to Special Application Dates and Procedures on page 17 for admissions process information. Candidates tentatively admitted at the time of application should be aware that the University will cancel the admission and/or the early registration of an applicant whose final official record, after completion of a current semester, shows ineligibility because of suspension, dismissal, or a drop in grade-point average below the required 2.0.

OTHER CATEGORIES OF ADMISSION

Readmission

Former University students who have not been enrolled for one semester or more, and who are in good standing are required to apply for readmission.

Applications for readmission should be submitted to the Office of Undergraduate Admission and University Registrar, along with:

1. official transcripts from all colleges and universities attended since leaving UK; and
2. a non-refundable application processing fee.

In order to be eligible for readmission, former UK students must have been in good standing at the time they left the University. Those who have been enrolled elsewhere must be eligible as transfer students on the basis of grade-point average and be in good standing at the institution most recently attended. Students under suspension from UK are not eligible for readmission, regardless of their status at another institution, until they have been reinstated to the University. If the suspension is for academic reasons, reinstatement should be requested from the dean of the college in which they intend to enroll by the stated deadline; if the suspension is nonacademic, reinstatement should be requested from the appropriate University official. Reinstated students also must file an application for readmission in the Office of Undergraduate Admission and University Registrar by the stated deadline.

Readmission candidates should submit an application as early as possible. This allows the Office of Undergraduate Admission and University Registrar adequate time to prepare the necessary forms for registration. Refer to the University Calendar on page 4 for general admission deadlines. Information on selective college and program deadlines and procedures appears at the end of this section.

Nondegree Students

The goal of the University of Kentucky policy for nondegree students is to provide appropriate access to academic courses for students desiring to continue their education without seeking a degree. Although degree-seeking students should have top priority with respect to University resources, the University does wish to provide access to these resources on a space-available basis to nondegree seeking students. This policy will provide reasonable access to a broader range of students without unnecessarily limiting University resources for degree-seeking students.

Nondegree status affords an opportunity for individuals to pursue lifelong learning without the structure of degree-seeking status and is consistent with the educational mission of the University.

Most nondegree students are considered “Lifelong Learners” and include the following groups: Donovan Scholars, students who have already earned degrees and non-traditional students who wish to begin their studies as nondegree students in order to be considered for degree-seeking status later. Other students eligible to enter the University in a nondegree status include visiting students from other colleges and universities, high school students of exceptional ability, and other students in special circumstances as determined by the Director of Admission. (See information about visiting students and high school students with exceptional ability earlier in this section.)

Rules Governing Admission of Nondegree Seeking Students

To be admitted as a nondegree student, an applicant must meet the following criteria:

1. The high school class of a nondegree applicant must have graduated at least two years prior to the applicant’s anticipated semester of enrollment, unless the applicant will be on active military duty during his/her tenure as a nondegree student.
2. Applicants who have been denied admission as degree-seeking students may not in turn be enrolled as nondegree seeking students.
3. Former University degree-seeking students generally will not be enrolled as nondegree students without having earned an undergraduate degree.
4. University students under academic or disciplinary suspension may not be enrolled as nondegree students.

5. Students currently under suspension at other institutions may not be enrolled as nondegree students at UK. Failure to disclose a current suspension may result in forfeiture of eligibility for future enrollment.

6. Students are strongly encouraged to submit transcripts of high school or prior colleges at the time of admission in order to facilitate advising about appropriate course work.

**Rules Governing Enrollment of Nondegree Seeking Students**

1. Nondegree students must meet course prerequisites or obtain the consent of the instructor to enroll in a course.

2. No student may continue to enroll as a nondegree student after earning 24 semester hours in this status without the special permission of the dean of the college in which the student is registered. Students who wish to continue course work are encouraged to apply for admission as a degree-seeking student.

3. Credit earned as a nondegree student will be evaluated for acceptability toward a degree by the dean of the college in which the student will be enrolled. Most colleges provide administrative oversight of their nondegree students. Nondegree students whose registration status does not reflect affiliation with a particular college will come under the purview of the Dean of Undergraduate Studies. Successful completion of course work as a nondegree student does not ensure admission as a degree-seeking student. No graduate or professional credit is awarded for courses taken while a student is enrolled as an undergraduate nondegree student.

**Procedures**

1. Nondegree students who wish to take day classes must meet regular admission deadlines for each term. They are encouraged to participate in academic advising each semester. Advisors will be assigned to these students.

2. All nondegree students who wish to continue after their first semester are expected to participate in priority registration for the following semester.

Nondegree students may apply for degree-seeking status after meeting regular University and program admission criteria. Applicants who earned fewer than 24 semester credit hours at UK must meet the University’s standards for selective admission as first-time freshmen. Applicants who have earned 24 or more semester hours will be considered transfer students for admission purposes and transfer of credit policies will apply.

The dean of the college the degree-seeking student enrolls in determines how credit earned as a nondegree student is applied toward a degree.

Nondegree students applying for degree-seeking status must submit to the Office of Undergraduate Admission and University Registrar:

1. an application for admission;
2. a non-refundable application processing fee;
3. official scores from the ACT or SAT (if fewer than 24 semester hours earned); and
4. official transcripts from all previously attended institutions.

Refer to the University Calendar on page 4 for general admission deadlines.

**Auditors**

An auditor is a student who enrolls in a course but receives no grade or credit. Students in this category should indicate auditing status on their application for admission.

Auditors are charged the same tuition as students receiving credit. Auditors cannot change to credit status after the beginning of class work, and cannot be considered for admission to earn credit unless they are admitted to a degree program in the University as a regular student. To do this, the auditor must file the required documents by the deadline for a subsequent semester. A student under academic or disciplinary suspension may not enroll as an auditor.

Students who wish to apply as auditors must submit to the Office of Undergraduate Admission and University Registrar:

1. an application for admission; and
2. a non-refundable application processing fee.

Refer to the University Calendar on page 4 for general admission deadlines.

**Transient Students**

A transient student is a visiting nondegree student from another institution who intends to earn credit at UK that will be applied to degree requirements at his or her sponsoring institution. Transient students must meet the same admissions requirements as transfer students.

Transient applicants must submit to the Office of Undergraduate Admissions and University Registrar:

1. an application for admission;
2. an official transcript or letter of good standing certifying grade-point average from the applicant’s sponsoring institution; and
3. a non-refundable application processing fee.

Refer to the University Calendar on page 4 for general admission deadlines.

**UK Students As Transients at Other Schools**

UK students may earn a limited amount of credit toward a baccalaureate degree at another college or university, provided they have prior approval from their dean and advisor, and provided the other school is fully accredited and the course work meets the University specifications for credit acceptance. The student should consult with an advisor or dean before enrolling at another institution. Students enrolled at other institutions at the same time they are enrolled at UK must have the specific approval of the appropriate dean. Students are responsible for determining whether transfer course work is acceptable and how it applies to the degree program. The University Senate has established certain conditions for accepting credit earned at other schools; therefore, improper enrollment at other institutions will result in the loss of the credit earned there.

A University student who enrolls elsewhere for only a summer session between a spring enrollment at UK and the following fall semester does not need to reapply for admission for the fall semester. The student must arrange for transcripts of transfer work to be sent to the Office of Undergraduate Admission and University Registrar immediately following the summer session.

**International Applicants**

UK is authorized under federal law to enroll qualified nonimmigrant international applicants.

International applicants should apply and submit all required documents by May 15 for fall semester admission and by October 15 for spring semester admission. International applicants must submit to the Office of Undergraduate Admission and University Registrar:

1. an international application for admission;
2. a non-refundable $45.00 application processing fee;
3. a sponsor guarantee form;
4. *bank statement;
5. **official academic transcripts;
6. ***TOEFL/English Proficiency; and,
7. additional information may be requested by admission officer.

Admission is competitive and preference is given to applicants who are best qualified academically. All documents relating to academic records, financial ability, and competency in the English language must be received before permission to enroll and the proper immigration form can be issued. All documents must be official or certified as such.

*All international applicants must show proof of at least $27,735 for the first academic year. This amount covers present tuition, fees, health insurance, books and living expenses from the fall semester through the
Undergraduate Admission

spring semester. This amount also includes room and board expenses for summer. Evidence of financial support may include bank letters verifying personal and family assets, government or private scholarships. An authorized bank official must sign the guarantee. All documents must be originals (faxes and photocopies are not accepted), dated and have appropriate seals and/or be notarized as official. Fees are subject to change at any time.

All international applicants are required to have university-approved health insurance.

**Official transcript from each institution attended (high school, college or university). Applicants from non-English speaking countries must provide an official literal English translation of their official school records. Students who wish to transfer credit to UK should submit course descriptions, course syllabi, old tests, papers, and any other materials that can help determine course equivalencies.

***Students whose native language is other than English must score at least 527 (paper and pen), 197 (computer-based), or 71 (iBT) on the Test of English as a Foreign Language (TOEFL) to be eligible for general admission to UK. “Native language” is defined as an individual’s first acquired language and the language of educational instruction. The TOEFL requirement may be waived for students who present an official transcript of satisfactory English work taken at an accredited American college, or a college in another country where English is the native language.

The Test of English as a Foreign Language (TOEFL) is offered by the Educational Testing Service and may be taken at various test centers throughout the world. Applicants must take the test early enough to ensure that the results are reported to the University by the required deadlines.

For students with marginal scores on the Test of English as a Foreign Language (TOEFL), the English Department at UK offers an intensive program in English as a Second Language, designed to improve both oral and written skills. Completion of this program does not guarantee undergraduate admission. For complete details about the program, write to: Center for English as a Second Language, English Department, 1235 Patterson Office Tower, University of Kentucky, Lexington, KY 40506-0027, (859) 257-7003.

The Office of Undergraduate Admission and University Registrar may require additional documents in order to process an application.

QUESTIONS CONCERNING ADMISSION DECISIONS

All applicants to the University of Kentucky have the right to question or appeal admission decisions. Applicants desiring to appeal a decision should contact the Office of Undergraduate Admission and University Registrar to obtain information on the appeal process as well as deadlines.

ADVISORY CONFERENCES

New freshmen and transfer students are oriented to the University in two steps. The first step is the Advising Conference, part of orientation at UK for more than three decades. The informative conferences offer students and parents the opportunity to learn more about the University, student life and residence hall living. Participants attend sessions on academic expectations, University Health Service, student activities and organizations, student computing services, and many other student services. Students also meet with an academic advisor, plan their schedules, and register for classes.

First-year students admitted for fall attend a two-day conference. These popular conferences allow students more time to meet UK faculty, staff, and students. Participants get the chance to meet with their academic advisors, take placement exams, and register for classes.

Students receive complete information about the Advising Conference after they are admitted. Freshmen must confirm an Advising Conference date by May 1 to hold a space in the class.

Merit Weekends

The University invites academically talented students and their parents to attend special two-day advising conferences called Merit Weekends. In order to attend a Merit Weekend, admitted students must have at least a 28 composite score on the ACT Assessment (or 1240 on the SAT). The Merit Weekend program replaces the Summer Advising Conference and assures participants a higher priority in class selection. Merit Weekends are usually held in early spring. Freshmen must confirm an Advising Conference date by May 1 to hold a space in the class.

K WEEK

New students ease their transition to campus life through participation in K Week. This welcome week program begins the weekend before classes start and offers a variety of social activities, academic programs, and information sessions. Some activities, such as residence hall floor meetings, commuter student meetings, library tours, and college meetings, familiarize students with community expectations and opportunities. Other activities such as Campus Ruckus and other parties challenge students to expand their circle of friends and get involved on campus. UK FUSION, a city-wide day of community service, encourages students to form important connections with other new students, student leaders, academic advisors, faculty, and staff.

Students receive detailed information about K Week during the summer. All new students are expected to attend. K Week includes special programs for non-traditional students (25 years of age or older) and transfer students.

For more information, visit: www.uky.edu/NSPP.

UK 101, ACADEMIC ORIENTATION COURSE

UK 101 is a one-credit-hour, pass/fail, ten-week orientation course offered to first-year students. Former students overwhelmingly recommend this class to first-year students. The UK 101 course offers the opportunity for students to:

- Interact with a faculty member, upperclass peer instructor, and other first-year students in a small group setting.
- Discuss and reflect on issues relevant to students during their first year of college.
- Learn the most effective strategies for studying, taking notes, increasing test scores, and managing time.
- Increase awareness and use of University resources such as the Career Center.
- Develop library and electronic access skills.
- Understand the purpose and nature of a university education in order to make the most of opportunities at UK.

Some UK 101 sections meet for the full semester and are targeted to specific student populations, such as students who have not declared a major. Students will learn more about the UK 101 course during their Advising Conference. For additional information, contact:

Dean of Students Office
518 Patterson Office Tower
University of Kentucky
Lexington, KY 40506-0027
(859) 257-6597
## SPECIAL APPLICATION DATES AND PROCEDURES

### For Admission To | Submit | By Deadlines For
--- | --- | ---
 | Fall | Spring | Summer

### COLLEGE OF AGRICULTURE

<table>
<thead>
<tr>
<th>Coordinated Program in Dietetics</th>
<th>Application, Transcript(s), Recommendations</th>
<th>February 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Program Applicants</td>
<td>(Students who have 71 semester hours of lower division courses)</td>
<td></td>
</tr>
</tbody>
</table>

### COLLEGE OF DESIGN

<table>
<thead>
<tr>
<th>School of Architecture</th>
<th>ACT scores, Application</th>
<th>March 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshmen</td>
<td>Test</td>
<td>March 5</td>
</tr>
<tr>
<td>Transfer Students</td>
<td>Application, Transcript(s), Test/Portfolio</td>
<td>April 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>School of Interior Design</th>
<th>Application, Transcript(s), Portfolio</th>
<th>February 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Program Applicants</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### COLLEGE OF HEALTH SCIENCES

Students must request applications from the Office of Student Affairs in the College of Health Sciences. Applications for fall admission are available from September 1 to December 15; applications for spring admission are available from February 1 to April 30.

<table>
<thead>
<tr>
<th>Professional Program Applicants (Students who have completed 60 hours or more at UK, UK community colleges, or other accredited colleges or universities)</th>
<th>UK and Professional Program Applications, All supporting credentials</th>
<th>April 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical Laboratory Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication Disorders</td>
<td>UK, Professional Program Applications, All supporting credentials</td>
<td></td>
</tr>
</tbody>
</table>

### COLLEGE OF LAW

<table>
<thead>
<tr>
<th>First-year Students</th>
<th>Law Application</th>
<th>March 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSDAS Report</td>
<td>March 31</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transfer Students</th>
<th>Law Application, Transcript(s), Credentials</th>
<th>June 1</th>
<th>December 1</th>
<th>May 15</th>
</tr>
</thead>
</table>

### COLLEGE OF NURSING

<table>
<thead>
<tr>
<th>Pre-Nursing</th>
<th>ACT scores, Application</th>
<th>May 1</th>
<th>May 1</th>
<th>May 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Level B.S.N.</td>
<td>Application, Transcript(s), ACT if required</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RNs only</th>
<th>Application</th>
<th>March 1</th>
<th>March 1</th>
<th>March 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credentials</td>
<td>March 15</td>
<td>March 15</td>
<td>March 15</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Degree B.S.N.</th>
<th>Application, Transcript(s)</th>
<th>March 1</th>
<th>March 1</th>
<th>March 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credentials</td>
<td>March 15</td>
<td>March 15</td>
<td>March 15</td>
<td></td>
</tr>
</tbody>
</table>

### COLLEGE OF PHARMACY

<table>
<thead>
<tr>
<th>Professional Program Applicants (Students who have completed 64 hours or more at UK, UK community colleges, or other accredited colleges or universities)</th>
<th>Application, Transcript(s), Other required credentials</th>
<th>January 1</th>
</tr>
</thead>
</table>

† Law school applications are processed in the College of Law. Send applications to College of Law, 209 Law Building, University of Kentucky, Lexington, KY 40506-0048.
FEES ARE SUBJECT TO CHANGE WITHOUT NOTICE AND INCREASES MAY BE NECESSARY IN SUBSEQUENT YEARS.

FEE PAYMENT POLICY

You become financially obligated to the University of Kentucky when you register for classes. This financial obligation can only be adjusted if you add/drop hours or officially withdraw from the University. It is your responsibility to comply with the policy and schedule for paying registration fees.

A student with unpaid tuition/fees who subsequently leaves or officially withdraws from school will be held liable for a percentage of those fees and will be declared delinquent subject to the penalties imposed by the institution for financial delinquency.

Students who late register will be assessed a $40 late registration fee.

Monthly Account Statements

Account statements will be created at the end of each month itemizing that month’s new charges and credits. The University must receive the total amount due (less estimated aid) on or before the due date indicated on the account statement. If full payment is not received by the due date, a late payment fee of 1.25 percent of the amount due will be assessed.

Late Registration Fee

All continuing students are expected to priority register each semester for the next semester. New students are assigned a specific date for registration. Any student who registers after the regular registration period will be charged a late registration fee of $40.

Auditors

All auditors are charged the same fees they would pay for credit.

Internship Courses

Students taking internship courses (e.g., courses numbered 399) must register for the course during the term the internship is taken and pay all required semester fees. In no case shall students be allowed to defer registration and payment for summer internships to the following fall semester.

Zero-Credit Courses

Some University courses are offered for 0 credit hours. The fees for these courses are based on the number of hours per week the course meets, so that the cost of a 0-credit course which meets one hour per week is the same as the cost of a 1-credit course for a student in a particular classification (i.e., resident, nonresident, graduate, undergraduate). Zero-credit courses are counted as part of the student load for fee payment purposes and for purposes of issuing ID cards.

There is no fee for a course numbered 749, or 769, if the student is approved to take the 769 course for 0 credit hours. In a few departments zero-credit courses are actually laboratories which are a required part of another course. They are numbered separately for scheduling purposes, but no additional fee is charged.

Financial Delinquency

The University of Kentucky expects students to be responsible in their financial obligations to the University or any department or division thereof. The University assesses student fees for various services, fines, and materials. Students are to be properly notified of amounts to be paid and designated payment due dates. After unsuccessful collection efforts by the department or division, the student is classified delinquent and the following may occur: financial holds, class cancellations, late fees, collection agency efforts, and denial of access to student services.

FINANCIAL OMBUD SERVICES

The Financial Ombud provides a neutral and confidential setting for current and prospective students and their parents to discuss difficult or unusual financial problems affecting tuition and fee payment. The Financial Ombud resolves problems, counsels, and makes recommendations and referrals as needed.

The Office of the Financial Ombud Services is open from 8 A.M. to 4:30 P.M. and is located in 18 Funkhouser Building. For information, questions, or appointments, call (859) 257-3406.

HEALTHCARE

For the regular fall and spring semesters, payment of the mandatory registration fee by full-time students entitles them to medical and mental health care at University Health Service. Part-time students may pay the health fee or use the Health Service on a fee-for-service basis. The health fee is voluntary for all students for the summer sessions. Students are strongly advised to purchase health insurance to cover medical expenses incurred beyond those provided by University Health Service. For more information on the health fee or the services provided, call (859) 323-5823; or visit us on the Web at: www.uky.edu/StudentAffairs/UHS/.
WILDCARD STUDENT ID

All students admitted to the University (both full-time and part-time) are expected to obtain a WildCard student ID. This is a permanent card, which becomes valid each semester when fees are paid. The first WildCard is purchased for $15.00. Payment can be made with cash, check, Plus Account, Visa or MasterCard. The following information will help you understand your responsibility and how to fully utilize your WildCard ID. After August 24, 2007, the WildCard v2.0 is the only valid student ID. For additional information, visit our Web site at: www.uky.edu/UKID/.

- Your WildCard ID is the official identification for class attendance and tests, Student Employment Services, and student elections.
- The bar code on the front of your WildCard is your library account number.
- By opening a Plus Account you may make purchases from Food Services (including vending machines and card accessible laundry), the UK Bookstore, Kennedy Book Store, Wildcat Textbooks and the UK Medical Center Bookstore. You can also use the Plus Account at participating off-campus businesses. You can buy tapes at the language lab, pay breakage fees in the chemistry lab or print at the computer labs.
- When you live in a residence hall, the WildCard ID will access your Meal and Flex Accounts. Off-campus students can also purchase a meal plan.
- It’s your KEY in residence hall front doors.
- Present your WildCard ID at Health Services if you are a full-time student or a part-time student who has paid the health fee.
- Use your WildCard ID at the Student Center Ticket Office, Singletary Center for the Arts and the Cat’s Den in the Student Center.
- Pick up football and basketball tickets and use your WildCard ID for entry to other UK campus events.
- Use the Johnson Center and campus swimming pools/recreational facilities.
- Use your WildCard ID for printing in the computer labs.

If you lose your WildCard ID, report the loss immediately to the WildCard U.K.I.D. Center at (859) 257-1378, the Diner/Plus Account Office at (859) 257-6159, or any Food Service location. You can also cancel your card online at: www.uky.edu/PlusAccount/. Any financial charges/transactions made with this card are the responsibility of the student. A replacement ID may be obtained for $20.00 in 107 Student Center. Payment may be made with cash, check, Plus Account, Visa or MasterCard. The WildCard ID is the property of the University of Kentucky and must be surrendered upon request of authorized officials of the University.

PERSONAL EXPENSES (not payable to the University)

Books and Supplies. Range from $200 up, depending on the student’s major field of study and schedule of classes for the semester. Students may use their Plus Account for purchases at the University of Kentucky Bookstore, Kennedy Book Store, WildCat Textbooks, and the ecampus.com Lexington retail store. Plus Account deposits may be made in any whole dollar amount at the following locations: online at www.uky.edu/PlusAccount; The Dining & Plus Account Office; Student Billing Services; or DART machines in campus computing labs. For more information about Plus Accounts, call (859) 257-6159.

Laundry. For students living in the residence halls and Greg Page apartments, laundry facilities for personal items are provided. Students activate the laundry machines using the Plus Account card access system. Plus Account deposits may be made in any whole dollar amount at the following locations: online at www.uky.edu/PlusAccount; The Dining & Plus Account Office; Student Billing Services; or DART machines in campus computing labs. For more information about Plus Accounts, call (859) 257-6159. Local cost for this laundry service is comparable to that in any city.

WITHDRAWAL FROM THE UNIVERSITY

You may cancel your registration before the first day of class by using UK-VIP. See below for dropping a class with a W grade.

All students, including degree seeking, non-degree seeking, and visiting students, who wish to leave the university during a term (fall, spring or summer) must formally withdraw.

There are three methods of withdrawing from the University of Kentucky:
1. withdrawing in person at the Registrar’s Office in 10 Funkhouser Building;
2. requesting withdrawal from course work via fax;
3. mailing your withdrawal request to the Registrar’s Office; and
4. drop or withdraw from all courses using myUK.

In person: A student is required to come to 10 Funkhouser Building between 8 A.M. and 4:30 P.M., Monday - Friday and complete an Authorization to Withdraw card. Additional signatures may be required depending upon the student’s enrollment status. The date noted on the Authorization to Withdraw card will serve as the student’s official withdrawal date.

Fax request: There are circumstances in which a student cannot physically appear to withdraw. For these cases, the Registrar’s Office will accept a faxed request for withdrawal. The date of the fax will serve as the official date of the withdrawal. The fax number is (859) 257-7160.

The information needed for the fax request is:
- full name
- student number
- list of courses
- term
- date
- signature
- phone number

--- continued ---
Mail request: The student may mail a written request for withdrawal to the Registrar’s Office. The address is:

Student Records
10 Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054

The postmark will serve as the official date of the withdrawal. Information for withdrawal via mail is identical to that of the fax request.

NOTE: After the last official day to withdraw from a term, the student must start the withdrawal process beginning with the dean of the student’s college. (Senate Rule, V.1.8.3). A student should contact his/her college’s student services office for more details concerning this process.

### REFUND and FEE LIABILITY POLICY

Tuition refunds or outstanding fee liabilities for students who officially withdraw through the Registrar’s Office, or who change their status from full-time to part-time or further reduce their part-time status through Add/Drop, will be made according to the following schedule. All dates are those designated in the official University Calendar.

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>STUDENTS WHO WITHDRAW BY:</th>
<th>WILL RECEIVE REFUND/REDUCTION</th>
<th>WILL CONTINUE TO OWE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall 2007</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>August 21, 2007</td>
<td>100%</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>August 28, 2007</td>
<td>80%</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>September 19, 2007</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td><strong>Winter Intersession 2007</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>December 14, 2007</td>
<td>100%</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>December 17, 2007</td>
<td>80%</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>December 19, 2007</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td><strong>Spring 2008</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>January 8, 2008</td>
<td>100%</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>January 15, 2008</td>
<td>80%</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>February 6, 2008</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td><strong>First Summer Session 2008</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>May 6, 2008</td>
<td>100%</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>May 7, 2008</td>
<td>80%</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>May 13, 2008</td>
<td>50%</td>
<td>50%</td>
</tr>
<tr>
<td><strong>Second Summer Session 2008</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>June 5, 2008</td>
<td>100%</td>
<td>0%</td>
</tr>
<tr>
<td></td>
<td>June 6, 2008</td>
<td>80%</td>
<td>20%</td>
</tr>
<tr>
<td></td>
<td>June 19, 2008</td>
<td>50%</td>
<td>50%</td>
</tr>
</tbody>
</table>

After last day to officially withdraw per University Calendar – No Refund

Refunds are based solely on the date of withdrawal, regardless of whether students attend any class(es). As required under section 484B of the Higher Education Act (HEA), to assure recovery of federal financial aid funds, a special refund schedule applies to those students receiving Title IV financial assistance who withdraw (officially or unofficially) during the academic term.

A student not paying tuition fees and subsequently leaving or officially withdrawing from school will be held liable for one-half of those fees. In the case of nonpayment, he or she will be declared delinquent subject to the penalties imposed by the institution for financial delinquency.

Questions concerning fee payment procedures may be directed to the Financial Ombud, 18 Funkhouser Building, (859) 257-3406. Questions concerning tuition refunds may be directed to the Registrar’s Office, Funkhouser Building, (859) 257-8729.
## HOUSING AND DINING COSTS
### 2007-2008

### RESIDENCE HALLS

<table>
<thead>
<tr>
<th>Residence Halls</th>
<th>Per Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Undergraduate Residence Halls</strong></td>
<td></td>
</tr>
<tr>
<td>Traditional Residence Halls</td>
<td></td>
</tr>
<tr>
<td>(includes minimum Dining Fee of $1,974 – see Dining Plans below)</td>
<td></td>
</tr>
<tr>
<td>with air-conditioning</td>
<td>$5,809^</td>
</tr>
<tr>
<td>without air-conditioning</td>
<td>$5,524^</td>
</tr>
<tr>
<td>Premium Residence Halls</td>
<td></td>
</tr>
<tr>
<td>(includes minimum Dining Fee of $1,974 – see Dining Plans below)</td>
<td></td>
</tr>
<tr>
<td>suite–double occupancy</td>
<td>$6,924^</td>
</tr>
<tr>
<td>suite–single occupancy</td>
<td>$9,289^</td>
</tr>
<tr>
<td>Additional Housing Fee</td>
<td></td>
</tr>
<tr>
<td>(Smith, New North, Kirwan II and Holmes)</td>
<td>$134</td>
</tr>
</tbody>
</table>

| Per-Diem Housing Rate††                   | $15      |

### APARTMENTS AND FAMILY HOUSING

<table>
<thead>
<tr>
<th>Single Graduate/ Professional Apartments*#</th>
<th>Per Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commonwealth Village</td>
<td></td>
</tr>
<tr>
<td>efficiency–single occupancy</td>
<td>$510</td>
</tr>
<tr>
<td>one bedroom–single occupancy</td>
<td>$630</td>
</tr>
<tr>
<td>Linden Walk/Rose Lane</td>
<td></td>
</tr>
<tr>
<td>efficiency–single occupancy</td>
<td>$510</td>
</tr>
<tr>
<td>German House</td>
<td></td>
</tr>
<tr>
<td>single room</td>
<td>$545</td>
</tr>
<tr>
<td>one bedroom</td>
<td>$625</td>
</tr>
</tbody>
</table>

### Family Housing* Per Month
- Greg Page Stadium View Family Apartments
  - two-bedroom apartment $685

### SUMMER SESSION HOUSING

<table>
<thead>
<tr>
<th></th>
<th>Per Month</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Summer Session</strong> (housing only)</td>
<td></td>
</tr>
<tr>
<td>Double occupancy</td>
<td>$505</td>
</tr>
<tr>
<td>Single occupancy</td>
<td>$625</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Second Summer Session</strong> (housing only)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Double occupancy</td>
<td>$1,015</td>
</tr>
<tr>
<td>Single occupancy</td>
<td>$1,255</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Six Week Summer Session</strong> (housing only)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Double occupancy</td>
<td>$760</td>
</tr>
<tr>
<td>Single occupancy</td>
<td>$940</td>
</tr>
</tbody>
</table>

### DINING PLANS

- Each student is required to pay a $50 deposit annually. This total includes the $50 deposit.

- Smith, New North, Kirwan II, and Holmes are Living-Learning Communities. Smith Hall and New North Hall will remain open during all stated academic recesses of the University between August 23, 2007 and May 4, 2008 to accommodate students who require housing during recesses.

- The per-diem rate is established for occupancy of halls that are not normally open during stated academic recesses of the University (Thanksgiving, Christmas, and spring break). Students must secure special permission to remain in housing during these periods.

- Includes basic furnishings and utilities. Does not include board or telephone. Deposit of $150 required.

- Graduate/Professional student housing is available 12 months a year. Meal plan is optional.

Dining Services offers a variety of plans to accommodate different schedules and eating habits.

The minimum plan will cost $987 each semester and includes 110 unlimited choice meals with $125 Flex dollars. The optional plans also include $125 in Flex dollars per semester. Flex Dollars may be used as “cash” at dining venues.

For more information, see “Dining Services” on page 34.

<table>
<thead>
<tr>
<th>Meal Plan</th>
<th>Approximate Meals/Week</th>
<th>Flex Dollars Per Semester</th>
<th>Total Cost Fall &amp; Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td>7</td>
<td>$125</td>
<td>$1,974</td>
</tr>
<tr>
<td>143</td>
<td>9</td>
<td>$125</td>
<td>$2,454</td>
</tr>
<tr>
<td>161</td>
<td>10</td>
<td>$125</td>
<td>$2,682</td>
</tr>
<tr>
<td>205</td>
<td>13</td>
<td>$125</td>
<td>$3,100</td>
</tr>
<tr>
<td>245</td>
<td>15</td>
<td>$125</td>
<td>$3,568</td>
</tr>
<tr>
<td>280</td>
<td>17</td>
<td>$125</td>
<td>$3,796</td>
</tr>
<tr>
<td>336</td>
<td>21</td>
<td>$125</td>
<td>$4,188</td>
</tr>
</tbody>
</table>

* Includes board and telephone. Deposit of $150 required.
# Graduate/Professional student housing is available 12 months a year. Meal plan is optional.
# TUITION AND FEES

## 2007-2008

**NOTE**: At the time of publication, the Board of Trustees had established the 2007-2008 tuition and fees but had not established the extra fees that apply to certain courses and programs. The extra fees listed here are from 2006-2007 and are subject to change.

<table>
<thead>
<tr>
<th>Tuition Schedule</th>
<th>Semester Full-Time Fee¹</th>
<th>Part-Time, Four-Week and Eight-Week Intersession Fee Per Credit Hour²</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNDERGRADUATE STUDENTS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students with 59 hours or less –</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident</td>
<td>$3,548.00</td>
<td>$282.43</td>
</tr>
<tr>
<td>Nonresident</td>
<td>$7,448.00</td>
<td>$607.43</td>
</tr>
<tr>
<td>Students with 60 hours or more –</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resident</td>
<td>$3,651.00</td>
<td>$290.43</td>
</tr>
<tr>
<td>Nonresident</td>
<td>$7,547.00</td>
<td>$615.43</td>
</tr>
</tbody>
</table>

Undergraduate students will be charged an additional $15 per credit hour for each **engineering course**.

Undergraduate **Physical Therapy** and **Communications Disorders** majors will be charged a program fee of $75 per semester (fall and spring) and $35 per summer term.

Undergraduate students who have declared a major in **Interior Design** or **Architecture** will be charged a program fee of $145 per semester (fall and spring).

Students will be charged an additional $15 per credit hour for all undergraduate **Business and Economics** courses, with the exception of ECO 101 and ECO 201.

Undergraduate Engineering students enrolled in the collaborative Chemical Engineering or Mechanical Engineering programs between Murray State, West Kentucky Community and Technical College (WKCTC), and the University of Kentucky will be charged tuition at the WKCTC tuition rate for all Paducah-based courses until such time Engineering status is attained. At such time students in this program reach Engineering status, tuition for Paducah-based courses will be billed at the University of Kentucky rate.

| **GRADUATE STUDENTS** |                          |                                                               |
|----------------------|-------------------------|                                                               |
| Resident | $3,835.00 | $401.43 |
| Nonresident | $8,079.00 | $873.43 |

**Communications Disorders** and **Physical Therapy** graduate students will be charged a program fee of $75 per semester (fall and spring) and $35 per summer term.

**Engineering** graduate students will be charged a program fee of $400 per semester for full-time students and $45 per credit hour for part-time students.

**Interior Design**, **Architecture**, and **Historic Preservation** graduate majors will be charged a program fee of $145 per semester.

**Master in Accounting** students will be charged a **$300** program fee per semester.

### Master in Business Administration (MBA)

| Full-Time Students in the “Day” Program (Annual Charges) |                          |                                                               |
|----------------------------------------------------------|-------------------------|                                                               |
| Resident | $8,212.00 |                                                               |
| Nonresident | $16,700.00 |                                                               |

Students enrolled in the collaborative **MBA program** between the University of Kentucky and the Technological Education Institute of Piraeus of Greece will be charged tuition of $9,000 to complete the required course work in 18 months.

Full-time, resident MBA students will be charged a program fee of $3,000 per semester.

Full-time, nonresident MBA students will be charged a program fee of $3,500 per semester.

### Master in Business Administration (MBA)

| Evening and part-time students |                          |                                                               |
|--------------------------------|-------------------------|                                                               |
| Resident | $4,434.00 | $468.43 |
| Nonresident | $9,643.00 | $1,046.43 |

Returning full-time **Master in Business Administration** students who were full-time in fall 2004 will be charged a program fee of **$300** per semester.

All part-time resident MBA students will be charged a program fee of **$750** per semester.

All part-time nonresident MBA students will be charged a program fee of **$1,100** per semester.

Fees are subject to change without notice.
For tuition purposes, 12 credit hours constitute a full-time load for undergraduate and pharmacy students, 9 hours for graduate and professional doctoral students, and 10 hours for law students.

For tuition purposes, part-time students and four-week and eight-week intersession students are charged on a per credit hour basis.

As a pilot program, beginning with fall 2007, the College of Medicine tuition and mandatory fee rates are ‘locked in’ for each entering class cohort. The rates will not change while students are enrolled in the program.

ANNUAL TUITION. A half-time tuition rate of $12,357 for resident students and $23,059 for non-residents is established for those medical students who have been approved by the College of Medicine Student Progress and Promotion Committee to take a reduced curriculum load.

ANNUAL TUITION. A half-time tuition rate of $11,118 for resident students and $22,908 for non-resident students is established for those dental students who have been approved by the Dean of the College of Dentistry to take a reduced curriculum load.

Tuition Schedule

<table>
<thead>
<tr>
<th>Semester Full-Time Fee¹</th>
<th>Part-Time, Four-Week and Eight-Week Intersession Fee Per Credit Hour²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Arts in Diplomacy and International Commerce/Master of Science in Physician Assistant Studies</td>
<td>Resident $4,022.00 Nonresident $8,266.00</td>
</tr>
<tr>
<td>Master of Science in Radiological Medical Physics/Master of Science in Health Physics</td>
<td>Resident $4,464.00 Nonresident $8,695.00</td>
</tr>
<tr>
<td>COLLEGE OF LAW</td>
<td>Resident $6,999.00 Nonresident $12,402.00</td>
</tr>
<tr>
<td>PHARMD</td>
<td>Resident $8,888.00 Nonresident $16,549.00</td>
</tr>
<tr>
<td>Other Returning Students</td>
<td>Nonresident $14,740.00</td>
</tr>
<tr>
<td>PROFESSIONAL DOCTORAL (Includes clinical doctorates in Nursing and Public Health)</td>
<td>Resident $5,000.00 Nonresident $11,160.00</td>
</tr>
<tr>
<td>COLLEGE OF MEDICINE³ * Students – entering class of fall 2004 and earlier</td>
<td>Resident $21,973.00 Nonresident $42,742.00</td>
</tr>
<tr>
<td>Students – entering class of fall 2005</td>
<td>Resident $23,457.00 Nonresident $44,660.00</td>
</tr>
<tr>
<td>Students – entering class of fall 2006</td>
<td>Resident $23,604.00 Nonresident $44,907.00</td>
</tr>
<tr>
<td>Students – entering class of fall 2007</td>
<td>Resident $23,752.00 Nonresident $45,155.00</td>
</tr>
<tr>
<td>COLLEGE OF DENTISTRY⁴ Students – entering classes of fall 2005, 2006 and 2007</td>
<td>Resident $21,274.00 Nonresident $44,854.00</td>
</tr>
<tr>
<td>Other Returning Students</td>
<td>Resident $20,710.00 Nonresident $44,082.00</td>
</tr>
<tr>
<td>Doctor of Physical Therapy (Annual Charges)</td>
<td>Resident $12,470.00 Nonresident $27,870.00</td>
</tr>
</tbody>
</table>

¹ For tuition purposes, 12 credit hours constitute a full-time load for undergraduate and pharmacy students, 9 hours for graduate and professional doctoral students, and 10 hours for law students.

² For tuition purposes, part-time students and four-week and eight-week intersession students are charged on a per credit hour basis.

³ ANNUAL TUITION. A half-time tuition rate of $12,357 for resident students and $23,059 for non-residents is established for those medical students who have been approved by the College of Medicine Student Progress and Promotion Committee to take a reduced curriculum load.

⁴ ANNUAL TUITION. A half-time tuition rate of $11,118 for resident students and $22,908 for non-resident students is established for those dental students who have been approved by the Dean of the College of Dentistry to take a reduced curriculum load.

Fees are subject to change without notice.
Applicants for University financial aid are given equal consideration, regardless of race, color, religion, sex, marital status, beliefs, age, national origin, sexual orientation, or disability.

The University of Kentucky offers three types of financial aid to students:

1. **Financial aid based on financial need** is awarded to undergraduate and graduate students by the Office of Student Financial Aid.
2. **Direct unsubsidized loans** not based on financial need are available to students through the Office of Student Financial Aid.
3. **Financial aid based on academic merit** is awarded by the Academic Scholarship Office, as well as by certain academic departments and colleges.

**Graduate students** should consult The Graduate School Bulletin for information about assistantships and fellowships.

Each year the amount of funds requested by eligible applicants falls short of the resources available. The Office of Student Financial Aid bases its decisions on a) financial need, and b) the date of application.

**Students should apply as early as possible. Entering freshmen should apply by February 15, Transfer and continuing students should apply by April 1.** Eligible students who apply after these dates will receive assistance, but will receive less because some funds will already be exhausted. **Students should not enroll in classes with the intent of obtaining financial aid after the semester is underway.**

For more information on financial aid, contact:

**Office of Student Financial Aid**
127 Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054
(859) 257-3172

**APPLYING FOR FINANCIAL ASSISTANCE**

**Entering Freshmen**

Applicants should request financial aid forms from their high school or apply online at: [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

**Apply early.** Application material for the fall semester is available in January.

Applicants will be considered for need-based scholarships awarded by the Office of Student Financial Aid, Pell Grants, CAP/Kentucky State Grants, Supplemental Education Opportunity Grants, Federal Work-Study, Perkins Loans, Health Professions Loans, Federal Direct Stafford Loans, and Federal Direct PLUS Loans.

Follow the procedure listed below:

- Submit the online or paper Free Application for Federal Student Aid (FAFSA) no later than February 15, designating UK to receive the analysis. UK’s federal school code is 001989.

- A student must enroll in a degree program at UK in order to be awarded financial aid. The Office of Student Financial Aid informs students of financial aid decisions in April (or as soon thereafter as possible). Financial aid is credited directly to the student’s University account at the beginning of each semester.

- **Aid recipients should plan to have enough money for initial expenses for books, meals, and incidentals for the first three weeks of the semester until their aid is processed.** When the amount of financial aid credits exceed the student’s billed charges, a residual (refund) check for the difference will be mailed to the student.

Federal regulations require a number of applicants to verify the information they report. Be as accurate as possible when filling out financial aid forms. Since some of the application deals with income, plan to prepare income tax returns early. (If you have not completed income tax returns, you may use estimated figures in order to meet the February 15 deadline.) Changes in federal regulations and methodology for determining financial need may produce results which differ from year to year.

**Nondegree Students**

Individuals admitted by the Office of Undergraduate Admission or by the Graduate School as nondegree students generally do not qualify for financial assistance. **Nondegree students must make an appointment to see a financial aid counselor to discuss their eligibility to apply for assistance.** Nondegree students who receive and accept a financial aid award without appropriate clearance by their financial aid counselor will be required to repay any funds credited towards billed charges or released in a refund check. Students whose status changes to nondegree after the start of the term must notify their financial aid counselor and in most cases will be required to repay all funds disbursed during the term.

**Continuing Students and Transfer Students**

Continuing students and transfer students must reapply for financial aid (including scholarships) each year by submitting the Free Application for Federal Student Aid (FAFSA). This is required in order to track changes in student or family resources that could affect the amount of an award. Contact the Office of Student Financial Aid for application materials or apply online at: [www.fafsa.ed.gov](http://www.fafsa.ed.gov). The FAFSA must be completed and submitted to the federal processor as early as possible, preferably before April 1. Completing a FAFSA is also the first step in applying for a Federal Direct Stafford Loan.

The Office of Student Financial Aid informs students of financial aid decisions in June (or as soon thereafter as possible).

**Medical and Dental Students**

Medical students apply for financial aid through the Office of Education, College of Medicine, MN 104 A. B. Chandler Medical Center, (859) 323-5261. Dental students apply in the Office of Student Affairs, D-155 A. B. Chandler Medical Center, (859) 323-5280.

**CONTINUED ELIGIBILITY FOR STUDENT FINANCIAL AID**

Students must maintain satisfactory academic progress toward a degree to continue receiving financial aid. Students will be required to complete two-thirds (67 percent) of all cumulative credits attempted during their career at the University of Kentucky as expressed by the number of cumulative hours successfully completed divided by the number of cumulative hours attempted (with the result rounded up to the nearest whole percent). In addition to this credit-hour requirement, all financial aid students must maintain a cumulative grade-point average (GPA) that is consistent with the institution’s requirements for graduation. Therefore, students with a “junior” standing or higher must have a cumulative “C” average or 2.0 GPA in order to remain eligible for financial aid. (Note: Students placed on academic probation by the Registrar’s Office will automatically be placed on financial aid probation. Students in this category can continue to receive financial aid for up to one year. Students who have not been removed from academic probation at the end of one year will lose their eligibility for federal
financial aid funding.) Satisfactory academic progress will be evaluated once each year at the end of the spring term. Students who fail to maintain satisfactory academic progress may reestablish their eligibility by enrolling at their own expense in a subsequent semester and meeting the standards according to the cumulative credit hours attempted/completed and cumulative grade-point averages stated above. Contact the Office of Student Financial Aid for details on maintaining and reestablishing satisfactory progress.

Audited classes, credits earned through CLEP testing, or non-credit courses are not considered in determining satisfactory academic progress. Hours for courses with grades of incomplete (I) will not be counted as hours earned until the credit is received, but will be counted as hours attempted. Hours earned on a pass-fail basis or paid through a consortium agreement, however, will be used in determining satisfactory academic progress. Credits assigned to developmental (remedial) courses will be counted in calculating hours attempted; however, these courses are not used in calculating the grade-point average. Repeat courses taken during the year will automatically be considered in the following spring review for progress.

Federal regulations limit the number of cumulative credit hours for which a student can receive federal financial aid funds. An undergraduate student enrolled at the University of Kentucky should be able to complete his or her program of study in no more than 120 credits of academic work, including any transfer credits. Therefore, an undergraduate student typically may not receive federal financial aid after attempting 180 credit hours. The maximum time frame for students enrolled in programs of study requiring completion of more than 120 credits will be 150 percent of the credits required (e.g., programs requiring 130 credits will have a 195 credit maximum). A graduate student enrolled at the University of Kentucky should be able to complete his or her program of study in no more than 48 credits of academic work, including any transfer credits. Therefore, a graduate student typically may not receive federal financial aid after attempting 72 credit hours. The maximum time frame for graduate students enrolled in programs of study requiring completion of more or less than 48 credits will be 150 percent of the credits required (e.g., programs requiring 50 credits will have a 75 credit maximum).

GRANTS

A grant is a financial aid award that does not require repayment. Students can apply for all of the grant programs described below by completing a Free Application for Federal Student Aid (FAFSA).

Federal Pell Grants

The federally funded Federal Pell Grant Program provides grants to eligible undergraduate students working on their first baccalaureate degree. Federal Pell Grants currently range in value from $400 to $4,050 per school year and are based upon the student’s enrollment status and the financial circumstances of the family and applicant.

The U.S. Department of Education determines eligibility according to financial need. Applicants will receive a Student Aid Report (SAR) four to six weeks after applying. Students who provide an e-mail address on the FAFSA will receive SAR information via e-mail.

Supplementary Educational Opportunity Grants (SEOG)

The Higher Education Act of 1980 provides Federal Supplementary Educational Opportunity Grants for undergraduate students who need financial aid to enter or remain in college. The average SEOG award at the University is slightly more than $1,000. Larger awards are generally not possible, since there are more eligible applicants than available funds.

Kentucky College Access Program Grants (KCAP)

The KCAP Grant Program was established by the Kentucky General Assembly in 1974 and is administered by the Kentucky Higher Education Assistance Authority. KCAP Grants are one-year monetary awards based on financial need. They may be renewed for a total of eight semesters if financial need is established. The current amount of the grant is $1,900 annually for full-time attendance.

To be eligible for a KCAP Grant, a student must be an undergraduate, a U.S. citizen or permanent resident, a Kentucky resident, have an eligible expected family contribution (EFC), and must be enrolled at an eligible institution located within the Commonwealth of Kentucky.

KHEAA also offers assistance to students pursuing careers in education who plan to teach science or mathematics or who are Kentucky high school graduates with outstanding academic records. For more information, contact KHEAA, 1050 U.S. 127 South, Frankfort, KY 40601; or visit their Web site at: www.kheaa.com.

Kentucky Educational Excellence Scholarships (KEES)

The Kentucky Educational Excellence Scholarship Program (KEES) was established by the Kentucky General Assembly in 1998 and is administered by the Kentucky Higher Education Assistance Authority (KHEAA). KEES Scholarships are available to students who graduate from a Kentucky high school at the end of the 1998-99 academic year and beyond. Kentucky residents who meet the eligibility criteria can earn up to $2,500 per year. The amount of the scholarship is based on the student’s high school performance and ACT scores. Students will generally be eligible to receive the scholarship for a maximum of eight academic terms in an undergraduate program. For most programs of study, the scholarship must be used within five years of high school graduation.

To receive the full award, students must be enrolled full-time. Students enrolling less than full-time (but at least half-time) will receive a proportionate award. To retain the maximum award for the second year, an eligible student must complete his or her first two academic terms with a cumulative 2.5 GPA. Following this adjustment period, a student must achieve and maintain at least a 3.0 cumulative GPA to retain the maximum scholarship. If the student has a 2.5 to 3.0 cumulative GPA for a subsequent term, the award will be reduced by 50 percent for the next term. If the cumulative GPA falls below a 2.5, the student will lose the award for the next award period. A student may, however, regain eligibility later by reestablishing at least a 2.5 cumulative GPA.

Eligible students will receive official notification of their KEES award from KHEAA. The student’s enrollment must be verified prior to disbursement of the award. Therefore, funds will not be available until four weeks after the start of the semester. For more information, contact KHEAA at 1050 U.S. 127 South, Frankfort, KY 40601; or visit their Web site at: www.kheaa.com.

LOANS

Loans generally supplement a student’s savings, earnings, or other financial assistance. Loan funds generally are not adequate to cover all expenses. When possible, loans are combined with other types of financial assistance to reduce the amount a student must borrow.

Federal Perkins Loans

Perkins Loans are made available on a fund-matching basis between the University and the federal government.

A student must demonstrate financial need to be eligible for a Perkins Loan. The amount of loan is determined by the Office of Student Financial Aid based on the needs and resources of the student and available funds. Annual loan limits are $4,000 for each year of undergraduate study and $6,000 for each year of graduate or professional study. The aggregate loan over a number of years cannot exceed $20,000 for undergraduates and $40,000 for graduate and professional students.

Payment is not required while the borrower is enrolled as a half-time student. Interest begins to accrue at a rate of 5 percent per year at the beginning of the ninth month after the borrower ceases to be a half-time student. In this context, “half-time” is defined as half a normal load or a minimum of six hours for undergraduate students or five hours for graduate students.

Health Professions Student Loans (HPSL)

Students in the Colleges of Dentistry and Pharmacy are eligible for Federal Health Professions Student Loans. Funds for the HPSL program
are cooperative loan funds made available on the same basis as the Federal Perkins Loan Program described above.

The law requires that borrowers be enrolled as full-time students in good standing in the Colleges of Dentistry or Pharmacy and be in need of a loan to continue their professional education. **Parental information must be reported on the FAFSA even if the student is considered independent.** If required, the student must be registered with the Selective Service Administration.

The amount a student may borrow annually may not exceed the student’s cost of attendance. There is no aggregate maximum. Repayment of principal and interest begins one year after the student ceases full-time study, and must be completed within ten years. HPSL Loans carry a fixed interest rate of 5 percent.

**Primary Care Loan (PCL) Program**

The Primary Care Loan Program (PCL) assists students in the College of Medicine who intend to engage in primary care residency and/or practice upon graduation. **Primary health care is defined as family medicine, general internal medicine, general pediatrics, preventive medicine, or osteopathic general practice.**

Eligibility requirements for PCL are the same as those for HPSL, except that a recipient must commit to a three-year primary care residency and practice in primary care until the loan is paid in full. Students who fail to fulfill this obligation must repay their PCL loans within three years from the date of their failure to comply, and for loans made prior to November 13, 1998 must repay interest at 12 percent, computed from the date the loans were issued, and compounded annually. For loans made on or after November 13, 1998, the annual interest rate is 18 percent beginning with the date of noncompliance.

The amount a student may borrow annually may not exceed the student’s cost of attendance. Interest and repayment provisions are identical to those in the HPSL Program.

**Federal Direct Plus Loans and Graduate/Professional**

**Federal Direct Plus Loans**

Applications for Federal Direct Plus Loans are available from the Office of Student Financial Aid.

**Subsidized Federal Direct Stafford Loans**

The University of Kentucky participates in the Federal Direct Stafford Loan Program through an agreement with the U.S. Department of Education. The University receives loan funds directly from the Department of Education and disburses them to eligible students. Undergraduate students with a freshman classification may borrow up to $2,625 per academic year. Students with a sophomore classification may borrow up to $3,500 per academic year. Students with a junior, senior, or fifth-year classification may borrow up to $5,500 per academic year. Graduate students may borrow up to $8,500 per academic year. The amount of the loan may not exceed the cost of attendance or the cost of attendance less other aid received minus family contribution, whichever is less.

The interest rate for Federal Direct Stafford Loans is variable but will not exceed 8.25 percent. Under current law, students will receive an up-front interest rebate of 1.5 percent of the loan amount borrowed. Repayment begins six months after the borrower leaves school. In addition, a 3 percent origination fee is charged on all loans. Interest will not be charged while the student is enrolled in school at least half time, during a grace period, or during authorized periods of deferment. Interest will begin to accrue when the student enters repayment.

Students must complete a Free Application for Federal Student Aid (FAFSA) to apply for a Subsidized Federal Direct Stafford Loan.

**Apply early.** Allow a minimum of 4 to 8 weeks to process the loan.

**Unsubsidized Federal Direct Stafford Loans**

Unsubsidized Federal Direct Stafford Loans have the same terms and conditions as Subsidized Federal Direct Stafford Loans; however, the borrower is responsible for interest that accrues while the borrower is in school. Independent undergraduate and graduate students have increased loan eligibility.

The Unsubsidized Federal Direct Stafford Loan program is open to students who may not qualify for subsidized Federal Direct Stafford Loans or who may qualify for only partial subsidized Federal Direct Stafford Loans. Borrowers may receive both subsidized and unsubsidized Federal Direct Stafford Loans totaling up to the applicable Stafford limit, if they do not qualify for the full amount permitted under the subsidized Federal Direct Stafford Loan Program.

Borrowers pay an origination fee of 3 percent. The fee is withheld from the loan when the funds are disbursed. Under current law, students will receive an up-front interest rebate of 1.5 percent of the loan amount borrowed.

**Short-term Loans**

Students are eligible to receive short-term, interest-free loans for a documented emergency. A $1 service fee is charged for each loan.

Up to four working days are required to process a short-term loan application. Short-term loans are not available during the first three weeks of a semester or immediately preceding the close of a semester. Only students who have paid their tuition and are in good financial standing with the University are eligible. Contact the Office of Student Financial Aid for more information.

**SCHOLARSHIPS**

Scholarship programs based primarily on **financial need** are administered by the Office of Student Financial Aid. Students with substantial financial need should read the preceding information and contact the Office of Student Financial Aid.

Scholarship programs based primarily on **academic merit** are administered by the Office of Academic Scholarships. To be eligible, entering freshmen must have a minimum unweighted grade-point average of 3.30 and an ACT composite score of at least 28 or an equivalent SAT total. The University also offers special academic scholarships to National Merit Finalists, Kentucky Governor’s Scholars, and Governor’s School for the Arts Alumni. For more information, contact the Office of Academic Scholarships.

Currently enrolled UK students who have demonstrated high academic achievement may apply for an Academic Excellence Scholarship. Applications are available during the spring semester and awards are made for the upcoming school year.

The deadline for new freshmen to apply for academic scholarships is January 15. Continuing students apply by April 15. For more information, contact:

Office of Academic Scholarships
217 Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054
(859) 257-4198
e-mail: academicscholar@lsv.uky.edu
www.uky.edu/AcademicScholarships/

Many academic departments and colleges have funds of their own that are granted to deserving students. For more information, check with the individual college or department of interest.

**2020 Scholars Program**

The Office of Academic Scholarships also administers academic-based awards through the 2020 Scholars Program. This program includes the Flagship Scholarship, which is available based on the UK admission application for entering first-time freshmen students with a 26 or 27 ACT and a 3.30 GPA. The award is for $1,500 for one year.

The 2020 Scholars Program also includes the Trustees Scholars, an initiative designed to increase the number of students transferring to UK from the state’s community and technical colleges. This program will offer students who earn associates degrees and 3.5 GPAs the opportunity to transfer to UK and continue to pay Kentucky Community and Technical College System tuition rates for two years. Scholarships also will be offered to a limited number of community
Students may work toward an undergraduate or graduate degree, audit classes for the joy of learning, or take individual courses for credit. The program is available at the Lexington campus and at Bluegrass Community and Technical College.

Donovan Scholars participate in the many intellectual, social, and cultural programs which characterize the University. In addition, special programs and events are available to Donovans aged 60 and older. These include an educational forum featuring topics of special interest, and classes in acting, art, computers, international affairs, languages, music, exercise, dance, readers theatre, and writing.

For more information, contact the Donovan Scholars Program, Ligon House, University of Kentucky, Lexington, KY 40506-0442, (859) 257-2656; e-mail: Judy.Henselman@uky.edu.

Oswald Research and Creativity Program

The Oswald Research and Creativity Program began in 1964 with the express purpose of encouraging research and creative activities by undergraduate students at UK.

The objectives of the program are: (1) to stimulate creative work by undergraduate students, and (2) to recognize individuals who demonstrate outstanding achievement. This recognition emphasizes the importance the University places upon academic excellence.

The program has categories in Biological Sciences, Design (including architecture, landscape architecture, interior design), Fine Arts, Hu-
Student Financial Aid, Awards, and Benefits

Awards are given on the basis of academic achievement or outstanding scholarship. Other Awards Programs from the Commonwealth of Kentucky. All persons eligible under this programs should bring certificates showing entitlement or eligibility. For information and applications, contact the Office of eUreKa!, 115 Bowman Hall, (859) 257-6420.

Undergraduate Summer Research and Creativity Grants

One of the strengths of research institutions like the University of Kentucky is the opportunity they provide for undergraduates to be involved in research projects. Engagement in educational activities outside the classroom is a key element in the learning process. Faculty members in many fields welcome the opportunity to share their expertise and assist students with research projects. Each year the Office of eUreKa! supports numerous independent research and creativity projects. Award recipients receive up to $2,000 to support these activities during the summer months. Awards are given out at the end of the spring semester. Undergraduate students in all academic areas are eligible to compete for these grants.

For information and applications, contact the Office of eUreKa!, 115 Bowman Hall, (859) 257-6420; or visit our Web site: www.uky.edu/EUREKA.

Other Awards Programs

Many academic departments at UK give special awards and prizes to students each year. Generally, special awards are cash prizes and are given on the basis of academic achievement or outstanding scholarship.

VETERANS BENEFITS

Benefits for Veterans and Eligible Dependents

Federal and state benefit programs for veterans and eligible dependents are coordinated through Veteran Services, located in 10 Funkhouser Building.

Veterans or eligible dependents (widow, wife of totally and permanently disabled veteran, child of deceased or totally and permanently disabled veteran) should report to the Veteran Services office during priority registration or on the Advising Conference date and pick up information about enrolling for benefits.

Students who have already applied for federal or state benefit programs should bring certificates showing entitlement or eligibility.

Students who depend on these benefits to meet their living expenses should bring enough money to cover expenses for at least eight weeks while the first benefit check is processed.

For further information on V.A. educational benefit programs, contact the St. Louis VA Regional Office, P.O. Box 66830, St. Louis, MO 63166-6830, (888) 442-4551.

Children of Kentucky War Veterans Tuition Waiver Program

Under the provisions of KRS 164.505, 164.507, and 164.515 certain children and spouses of Kentucky war veterans are eligible for assistance from the Commonwealth of Kentucky. All persons eligible under this program must meet admissions requirements and submit all necessary documents establishing eligibility under the program to the Student Records Office, 10 Funkhouser Building, (859) 257-8725.

Generally, children of Kentuckians who were killed in military action or who were permanently and totally disabled in wartime military services are eligible to have their tuition waived. This waiver does not cover special fees or additional fees that are charged for certain courses.

For additional information on the provisions of KRS 164.505, 164.507, and 164.515, contact the Kentucky Department of Veterans Affairs, Room 123, 545 S. Third St., Louisville, KY 40202.

ROTC FINANCIAL ASSISTANCE

Army ROTC Scholarships

Two-year, three-year and four-year scholarships are available through the Army Reserve Officers’ Training Corps program. These scholarships pay tuition, required university fees, $900 per year for textbook costs, and $300+ per month tax-free subsistence allowance while school is in session. Scholarship recipients will be commissioned as officers at the rank of Second Lieutenant in the United States Army upon graduation. Scholarship recipients will typically incur a four-year active duty commitment. Guaranteed Reserve Forces Duty Contracts are available too.

Length of scholarship, application deadline, and where to apply:

1. Scholarship applications are accepted year-round. The address to request or submit an application is: Professor of Military Science, ATTN: Admissions Officer, U.S. Army ROTC, 101 Barker Hall, University of Kentucky, Lexington, KY 40506-0028; or call (859) 257-6865.

2. Four-year scholarships: Application deadline is December 1 of a student’s high school senior year. High school juniors and seniors are eligible to apply. To receive an application, contact: United States Army Cadet Command, ATTN: Army ROTC Scholarship, Fort Monroe, VA 23651-1052; or call 1 (800) USA-ROTC; or apply online at: www.goarmy.com/rotc. Applications can also be obtained from: Professor of Military Science, ATTN: Admissions Officer, U.S. Army ROTC, 101 Barker Hall, University of Kentucky, Lexington, KY 40506-0028; or call (859) 257-6865. All applicants are evaluated by a board that considers the following criteria: ACT/SAT scores, high school academic record, extracurricular and/or athletic activities, and personal interview.

Advance Program (last two academic years of baccalaureate degree)

All contracted cadets (committed by signing an Army ROTC contract) receive a subsistence allowance of $400+ per month while school is in session, whether or not they are scholarship recipients. Active duty commitments range from a 90-day Officer Basic Course for Reserve (Army National Guard or U.S. Army Reserve) officers to four years for active duty officers.

To be eligible for the Advance Program, students must have completed the first two academic years of the ROTC program (Basic Program) or training (Basic Training/AIT, JROTC experience, Leadership Training Course).

Basic Program (first two academic years of the four-year ROTC program)

All students are eligible and welcome to participate in military science 100- and 200-level classes without obligation. The Basic Program focuses on an introduction to the Army, tasks common to all soldiers, and adventure training.

Leadership Training Course and Leadership Development Assessment Course

These camps are held during the summer lasting five weeks and each pays the student approximately $700.

Leadership Training Course is held at Fort Knox, Kentucky, and is attended by students who wish to participate in the Advanced Program.
Completion of training qualifies students to enter the Advance Program and receive a two-year scholarship.

Leadership Development Assessment Course is held at Fort Lewis, Washington, and is a requirement of the Advance Program for commissioning. Normally, students attend this Camp between the junior and senior years.

Simultaneous Membership Program

This program is open to students in the Advance Program. It enables them to remain a member of, or join a local Army National Guard unit or U.S. Army Reserve unit as officer trainees while attending college. Pay through either of these units is based on that of a Sergeant E5. See the admissions officer or call your local National Guard/Army Reserve recruiter for details. Students who attend or have attended Basic Training/AIT are eligible to receive 100 percent paid tuition reimbursement, Montgomery GI Bill, Kicker, plus over $1,100 per month while serving in the Kentucky Army National Guard.

Air Force ROTC Scholarships

The types of financial assistance available through Air Force ROTC are briefly described below. For further details on eligibility and requirements, contact the Department of Aerospace Studies, 203 Barker Hall, University of Kentucky, Lexington, KY, 40506-0028, (859) 257-7115; or visit www.uky.edu/AS/Aerospace for more information. Additional information is also listed in this Bulletin under Aerospace Studies.

High School Scholarship Program (HSSP). Scholarships are available to those qualified and selected students who enroll in the Air Force ROTC program. These scholarships cover tuition and laboratory fees, provide an allowance for books, and provide a graduated nontaxable subsistence allowance ranging from $250 to $400 per month. Qualified high school students can apply for four-year Air Force ROTC scholarships. Applicants for four-year scholarships are evaluated on the basis of the following criteria: a composite score on the American College Test (ACT), or a composite score on the Scholastic Aptitude Test (SAT); the applicant’s high school academic record; class ranking; extracurricular and athletic activities; personal interview; and ability to qualify on an Air Force medical examination.

High school students who meet the basic eligibility requirements for a four-year scholarship must submit an application to HQ Air Force ROTC by December 1 of the year prior to enrollment in the program (usually the senior year in high school). All selections for four-year scholarships are made at Air Force ROTC headquarters. Students meet regularly scheduled boards from September to February. High school students should apply online at: www.afrotc.com. For additional information, contact the Professor of Aerospace Studies, 203 Barker Hall, University of Kentucky, Lexington, KY 40506-0028, or by writing to Air Force ROTC/RRUC, 551 East Maxwell Blvd., Maxwell AFB, AL 36112-6106.

College Scholarship Program. Two-, two-and-a-half-, and three-year scholarships are also awarded to students enrolled as cadets in the Air Force ROTC program on a competitive basis and initial selection is made on campus by a board composed of Air Force ROTC officers. Final selection is made by a central selection board at the Air Force ROTC headquarters. Students interested in these scholarships should contact the Professor of Aerospace Studies on campus. Please call (859) 257-7115 for the latest information.

Furthermore, there is an express scholarship program available to individuals pursuing a critical area. These scholarships can be for up to three and a half years. Critical areas are updated every year. For current information, call (859) 257-7115.

Two-Year Program. Qualified students attending UK or transfer students from other institutions who did not enroll in the first two years of Air Force ROTC may receive a commission through the Two-Year Program. Those accepted receive a graduated nontaxable subsistence allowance starting at $350 a month and may qualify for scholarship opportunities that apply to tuition and books. The basic requirement to enter this program is that the student have two academic years remaining, either at the undergraduate or graduate level. Selection is competitive. Interested students should contact the Professor of Aerospace Studies early in their sophomore year.

Commission and Active Duty Requirements. All students who successfully complete the professional officer course, usually taken during the junior and senior years, and a summer field training course, will normally be commissioned as second lieutenants in the active duty United States Air Force. A leadership laboratory is also a requirement to becoming commissioned and is open to students who are members of the Air Force Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies. Students incur a service commitment ranging from four to ten years, depending on the specific program qualifications; although, most are only committed for four years. Information is current as of February 1, 2007 and is subject to change. Please call (859) 257-7115; or visit www.uky.edu/AS/Aerospace for more information.
Living Accommodations

APPLYING FOR HOUSING

The University’s Campus Housing Office processes housing applications, assigns residence hall rooms and undergraduate apartments, and notifies students of assignments.

It is important to note that applying for admission to the University and applying for University housing are two separate processes. Acceptance for one does not guarantee acceptance for the other. Also, applying for housing does not guarantee that you will be assigned housing. Usually, beginning freshmen who apply for housing prior to May 1 can be reasonably sure that housing will be available when they enter school the following fall.

Many students are disappointed when they do not obtain a University housing assignment due to late submission of the housing application. It is recommended that students apply for a housing assignment as soon as they are accepted to UK.

RESIDENCE HALLS

The University of Kentucky has 18 traditional residence halls, four premium residence halls designed as semi-suites, and one undergraduate apartment complex, providing single and double occupancy rooms for 6,000 students, about one-fourth of the student population.

The residential setting at UK is intended to contribute to a student’s education by providing a living/learning environment. There are several living/learning communities within undergraduate housing. For more information about each living/learning community, visit the Student Affairs Web site at: www.uky.edu/StudentAffairs/ResidenceLife/LivingLearning.html.

UK’s residence halls are the foundation upon which a solid college experience is built. Many current students believe that living in a residence hall is the best way to make friends, meet new people, and become involved in campus life. Studies indicate that overall, students who live on campus tend to have higher grade-point averages than students living off campus.

UK’s residence halls are staffed with professionally trained personnel, including resident advisors who live on each floor. The hall director and resident advisors assist in planning a variety of programs and in developing hall governments. Residents are encouraged to participate both within the hall and in the campus community.

All on-campus undergraduate residents are represented by the Resident Student Association, a group whose goal is to improve residence hall life by planning and directing social, educational and recreational programs, and by providing a unified voice for residents. The Resident Student Association is a member of the National Association of College and University Residence Halls (NACURAH, INC.), enabling interested residents to attend regional and national leadership conferences.

Room Assignments

Room assignments are determined by the date the completed housing application, first installment and housing contract are all received in the Campus Housing Office.

If housing demand exceeds capacity, the University may offer limited, temporary living arrangements until a permanent room assignment can be made. Each year, a number of housing recipients do not come to school, or come but do not stay, creating vacancies.

Roommates

Students may request roommates of the same gender on the housing application. Two students who wish to share a room must indicate each other as the preferred roommate, request the same residence halls, and submit applications at the same time.

RESIDENCE HALLS AND UNDERGRADUATE APARTMENTS

UK’s residence halls have many attractive features. Housing rates include utilities, cable television, computer network connection and furniture. All residence halls are staffed by hall directors and resident advisors. Each front desk has a staff member monitoring the lobby area 24/7. Closed-circuit television systems are placed in many areas of the halls. Residence halls provide convenient access to laundry facilities, game and television rooms, vending machines, lounges, study rooms and computer labs. Dining facilities are close to all areas of campus.

Smoking is not allowed in any residence hall or Greg Page Undergraduate Apartments. UK Housing policies and procedures apply to all residents who sign a contract and live in one of the residence halls, undergraduate apartments or Greek facilities managed by the University.

UK’s campus covers many acres. Students and faculty refer to the three major areas of campus as “north neighborhood,” “central neighborhood” and “south neighborhood.” UK’s residence halls are located in all three areas.

Students should read about each hall and learn about the facilities and the various living/learning communities available.

North Neighborhood

The north neighborhood consists of seven residence halls: Holmes, Keeneland, Patterson, Boyd, Blazer, Jewell and the New North Hall. North neighborhood includes a dining facility and a convenience store within Blazer Hall. North neighborhood halls are close to many classrooms, Memorial Coliseum, Rupp Arena, downtown and many eclectic shops and restaurants.

Central Neighborhood

Donovan Hall and Haggan Hall are single-gender halls and make up the central neighborhood. These halls are considered centrally located because they are close to many classroom buildings, as well as the William T. Young Library and UK Hospital. The Underground Fitness Center is located in the lower level of Donovan Hall.

South Neighborhood

The south neighborhood is comprised of the Kirwan-Blanding Complex, three premium residence halls – Baldwin, Smith, and Ingels – and the Greg Page Student Study-View Undergraduate Apartments. These communities are located near the William T. Young Library, the E.J. Nutter Field House and Training Facility, the Hilary J. Boone Tennis Center, Lancaster Aquatic Center, Cliff Hagan Stadium, Bernard Johnson Student Recreation Center, and Commonwealth Stadium.

Women’s Residence Halls

Blanding IV, a low-rise building in the Kirwan-Blanding Complex in the south campus neighborhood, is home to 167 women. The rooms are air-conditioned and carpeted. Guests of opposite gender have limited visitation.

Blazer Hall, located in the north campus neighborhood, is home to 186 women. This air-conditioned residence hall has a dining facility and convenience store located on the first floor. The visitation policy is 24-weekend.
Donovan Hall, located in the central campus neighborhood, houses 338 women. The hall is carpeted and the bunk beds can be converted to twin beds. In addition, the furniture may be rearranged. Donovan is home to the Underground Fitness Center. The visitation policy is 24-weekend.

Kirwan IV, also part of the Kirwan-Blanding Complex in the south campus neighborhood, is home to 167 women. Each room is carpeted and air-conditioned. The visitation policy is 24-weekend.

**Men's Residence Halls**

Haggin Hall, which houses 556 men, is located in the central campus neighborhood. Two dining facilities are located near Haggin: K-Lair Grill and OVID’s, located in the William T. Young Library. Haggin has a central lounge and recreation room and is completely air-conditioned and carpeted. This facility has a large study room. Haggin is also next door to the Underground Fitness Center. The visitation policy is 24-weekend.

Kirwan I, part of the Kirwan-Blanding Complex in the south campus neighborhood, houses 167 men, is air-conditioned, and is fully carpeted. Guests of the opposite gender have limited visitation.

**Co-Ed Residence Halls**

In co-ed residence halls, men and women are assigned to separate floors in each hall and do not share common bathroom facilities. In the new residence halls, men and women are assigned to separate wings, and each pair of rooms shares a bathroom in a suite-style arrangement. Students are encouraged to consult with their parents prior to making their application for any residence hall.

Blanding Tower and Kirwan Tower are part of the Kirwan-Blanding Complex in the south campus neighborhood. The two towers are air-conditioned and carpeted and house 625 students each. Kirwan Tower is home to the EXPLORE Community, for students who are undecided and undeclared in their major. This presents opportunities for students to be connected to resources across campus. The visitation policy for both towers is 24-weekend.

Blanding I, a three-story hall in the Kirwan-Blanding Complex, south campus neighborhood, is home to 167 co-ed students. It has a 24-weekend visitation policy.

Blanding II is dedicated to the CRED Community for students who share a common interest in exploring various aspects of spirituality and who seek to develop a community that is open to a variety of spiritual traditions commonly held around the world. Blanding II has a 24-7 visitation policy. It is home to 167 residents. Students from the general population may choose this hall as well.

Blanding III, located in the Kirwan-Blanding Complex, south campus neighborhood, is home to 164 residents and has a 24-7 visitation policy.

Boyd Hall is affiliated with the Honors Program Community. Boyd is located in the north campus neighborhood and is home to 137 residents. It includes a carpeted study room, computer lab, large recreation area, and a comfortable lobby. Rooms are carpeted and some rooms have sinks. Faculty from the Honors Program teach classes in Boyd and Patterson Halls. Boyd has a 24-7 visitation policy.

Holmes Hall, a four-story building in the north campus neighborhood, houses 304 students. A vending area, laundry room and study area are located on the ground floor. Rooms are carpeted and contain sinks. Holmes has all new furniture. Holmes is home to the new GREEN (Get real environmental experience now) Community. The visitation policy is 24-weekend.

Jewell Hall, located in the north campus neighborhood, is the smallest residence hall. Jewell Hall is home to the Journalism in the 21st Century Community. Jewell accommodates 108 students and has a 24-weekend visitation policy.

Keeneland Hall, located in the north campus neighborhood, houses 306 students and has rooms arranged as semi-suites (double rooms connected by a full bath). The hall also has a formal reception area and corridor study rooms. Keeneland has a 24-7 visitation policy. Keeneland is home to the Civic Engagement Community. This community is offered

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**RESIDENCE HALL CHARACTERISTICS CHART**

(Residence Halls are divided by their gender and COED status.)

Mark your **TOP 5 hills** (*1* = first choice) →

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**VISITATION:** L = Limited Hours | 24W = 24 hours weekends only | 24/7 = 24 hours, 7 days per week

**Boyd Hall** has wash basins (sinks) on second and third floors only.
to incoming first-year students who are interested in community service and leadership.

Kirwan II is UK’s Wellness Hall. It is equipped with a weight room and offers special programming for students who are especially health conscious. Kirwan II has a 24-7 visitation policy. It is home to 165 residents.

Kirwan III offers the Multicultural Affairs Science Cohort Community. Students enrolled as a cohort in Chemistry 105 in the fall semester and Chemistry 107 in the spring semester participate in structured tutoring and study groups conducted in the residence hall. Participants meet regularly with special guests to explore real-world chemistry and the role of science in daily life, and engage in fun, hands-on activities to enhance their classroom experience. Kirwan III has a 24-7 visitation policy and is home to 167 students.

Patterson Hall, also affiliated with the Honors Program Community, is located in the north campus neighborhood. Patterson is the oldest residence hall on campus. Patterson has been totally renovated, has all new furniture and is air-conditioned. Patterson is home to 136 residents and has a 24-7 visitation policy.

New North Hall, located on the corner of Martin Luther King Jr. Boulevard and Euclid Avenue in the north campus neighborhood, is home to the Arts Community. Arts Community participants will usually be in a related academic major. The program provides speakers and performers from the community and also encourages students to participate in community outings to local arts performances. In addition, students may take advantage of regular cabaret and open-mike events in the hall’s common area. Practice rooms and studio spaces for music and art students are also available.

New North Hall is a nine-month hall that is open during academic breaks. In addition, students have the opportunity to sign a 12-month option. New North Hall opened in August 2005 and is home to 144 students. It has a 24-weekend visitation policy.

Baldwin Hall, located behind Kirwan III on south campus, is designed for 180 co-ed residents. Women and men are assigned to rooms on alternating wings. Each of the new halls on campus has classrooms and disability-accessible rooms planned throughout. The spacious, semi-suite style bedrooms have a sink in each room, interchangeable furniture, and a full bathroom between each room. Baldwin Hall has a 24-weekend visitation policy.

Ingels Hall, located behind Kirwan IV on south campus, is home to the New Economy Incubator Community. Students that are technological innovators and/or entrepreneurial-savvy will be drawn to this hall. Residents will explore how ideas come to the marketplace with UK faculty and regional leaders in this new economy community. This living-learning community also includes specialized programming for a cluster of female engineering students living in the Women in Engineering Wing. For more information about Women in Engineering, contact Kelly Ney at kney2@email.uky.edu or (859) 257-4783. Students from the general population may want to choose this hall for its semi-suite style bedrooms where two students in each room share a full bathroom between each room. The furniture in these rooms is interchangeable. The visitation policy is 24-weekend.

Smith Hall, located directly behind Kirwan II on south campus, is the new nine-month hall, open during academic recesses. Smith Hall is home to the Global Village Community. The Global Village is a living-learning community designed to build cross-cultural friendship and understanding. This community is made up of students from the U.S. and many other countries. Students live together and share cultural perspectives from around the world through the experiences of daily life and specialized programs. First-year students enroll in courses that have an international focus. Smith Hall opened in August 2005 and houses 180 co-ed residents. It features two main entrances that open into a spacious lobby. There are balconies and classrooms in each of the new south campus halls and each hall offers semi-suite style, two double occupancy
rooms joined by a bathroom. Disability-accessible rooms are planned throughout all the new halls on campus. The furniture in all the new halls is interchangeable. Smith Hall has a 24-weekend visitation policy.

Greg Page Stadium View Apartments, located on the southern edge of campus across from Commonwealth Stadium, are situated on a curving drive near a wooded residential area. The complex consists of 19 buildings (each containing eight two-bedroom apartments), a laundry facility and a large vending location that accepts the Plus Account.

Each two-bedroom apartment is shared by four undergraduates of the same gender. There is an option of the apartment being shared by two undergraduates of the same gender for an increased fee. Each apartment has its own exterior entrance. Residents are expected to maintain the terms of the rental agreement and the regulations stated in the Code of Student Conduct: Rules, Procedures, Rights and Responsibilities.

Each apartment consists of two bedrooms, living room, dining area, kitchen, bath, and is completely furnished. All units have air-conditioning and heating with controls in the apartment. The apartments are furnished with a sofa, a lounge chair, two end tables, one dining table and four chairs. Each of the bedrooms in the apartment contains two twin beds, two desks with chairs, night stand, mirror and a chest. Ceiling lights are provided in each room. Desk lamps are not provided. Windows are covered with vertical or horizontal blinds. Drapes are not provided or recommended. The apartments have wall-to-wall carpeting. Kitchens contain a standard-size range and refrigerator. Students access the Internet through a modem in their apartment. Sixty basic cable channels are included. It is suggested that students delay bringing apartment accessories or personal furnishings until they discuss space arrangements with roommates. Greg Page has a 24-7 visitation policy.

Max Kade German House is a small community of students living together in a house on Maxwell Street. Students become immersed in German language and culture. Students who wish to live at Kade German House must specifically apply through the German Department. For more information, contact Professor Ted Fiedler at tfiedler@uky.edu or Azhar Swanson at (859) 257-3761.

Office of Residence Life
The mission of the Office of Residence Life is to provide a residential living and learning experience that engages and supports students. We accomplish this in each of the facilities we manage by:

- promoting a safe and secure environment,
- creating and maintaining an effective learning environment with on-going educational programs and opportunities,
- promoting individual growth and a sense of belonging through the creation of inclusive communities, and
- providing a connection with UK and the larger community.

The Office of Residence Life hires and supervises the staff who live and work in the facilities, including hall directors, house directors, resident advisors, office assistants and desk clerks. Each of these staff members receives extensive training in the management of undergraduate housing facilities and can be a valuable resource in meeting any need that a student might have.

**RATES**

The cost for living in University Housing is listed in the Fees section of this Bulletin, page 21.

**Rate Changes**
Rates are subject to change at any time before the beginning of the academic year, upon action by the Board of Trustees. Rates are normally established in May for the succeeding academic year.

**First Installment**
The first installment of $300, rental agreement and fire suppression form must accompany the housing application. The installment, as well as subsequent payments, must be made by mail to:

Office of Student Billing Services
18 Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054

Students requesting a receipt should include a self-addressed, stamped envelope.

**Cancellations and Refunds**
Applicants must cancel the housing application in person, by letter, or by e-mail to the University Housing Assignment Office. Students who cancel their housing contract and application by June 1 will get $150 of their first installment payment back. Students who cancel after June 1 will get no refund.

**After the semester begins:**

For the regular semester (16 weeks), students living in the residence halls who withdraw from the University will be assessed a minimum charge of $300 for room and board through the first week. Students withdrawing after the first week will be assessed a prorated charge for each week in residence during the second through twelfth weeks of the semester, plus any non-refundable fees. There will be no refund after the twelfth week. Any fraction of a week will be considered a full week.

Students withdrawing from a residence hall to enter graduate and family housing will be assessed a prorated charge for each week in residence, plus the non-refundable fees.

For more information regarding undergraduate housing, contact:

**Campus Housing**
125 Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054
(859) 257-1866
e-mail: ukhousing@lsv.uky.edu
www.uky.edu/Housing/

For general questions about the learning communities or the Office of Residence Life, contact:

**Office of Residence Life**
537 Patterson Office Tower
University of Kentucky
Lexington, KY 40506-0027
(859) 257-4784
e-mail: residencelife@lsv.uky.edu
www.uky.edu/StudentAffairs/ResidenceLife/livingLearning.html

For information about a particular learning community, e-mail: liveln@email.uky.edu.

**GRADUATE AND FAMILY HOUSING**
The University has apartment housing available to single graduate students at Shawneetown, Cooperstown, Commonwealth Village, and 468 Rose Lane. Undergraduate international students assigned by the UK Office of International Affairs have efficiency apartments available at 404 Linden Walk.

Apartments for students that are married or have families are available at Shawneetown, Cooperstown and Greg Page Stadium View.

For further information on graduate and family housing, contact:

**Graduate and Family Housing**
700 Woodland Avenue
Lexington, KY 40508-0132
fax: (859) 323-1900
e-mail: ukaphousing@lsv.uky.edu
(859) 257-3721
www.uky.edu/Housing/
The University’s Dining Services are designed to satisfy the food preferences and schedules of a diverse student body. Using the system is easy – just access one of the available dining accounts with the WildCard ID, or use cash. There are three accounts available for Dining Services locations:

1. **The Dining Plan** – this is the required account that all residence hall students must open. Students may choose from any of the plan options listed below. **NOTE:** All Dining Plans are one-year contracts that last through the fall and spring semester of the academic year.

2. **The Flex Account** – all students are eligible to put money into this account, which allows students the flexibility to spend money at any UK Dining Services unit, except Starbucks. Money can be added to the Flex Account at any time during the semester. This account works in a similar fashion to the Plus Account, but monies are used strictly for Dining Services locations. **NOTE:** Flex dollars are non-refundable and non-transferable between semesters.

3. **The Plus Account** – this account is optional and extremely versatile because it can be used for a variety of campus goods and services.

### The Dining Plan

The University of Kentucky is committed to providing flexible dining options that serve the best interests of our students. No matter what your eating preferences and habits are, there is a dining plan for you. The dining plans are based on a semester format. You estimate the number of meals you will eat during a semester and, based on that, choose the plan that best fits your dining needs. **NOTE:** Unused meals are non-transferable between semesters.

UK students living in residence halls are required to purchase a **minimum dining plan** for the 2007-2008 academic year. The minimum dining plan provides 110 meals per semester and $125 in Flex Dollars, and costs $987. All other escalating dining plans include $125 in Flex Dollars, and costs $987. The following dining plans are available to students living in residential living areas:

- **336 Plan** (average meals per week – 21)
- **280 Plan** (average meals per week – 17)
- **245 Plan** (average meals per week – 15)
- **205 Plan** (average meals per week – 13)
- **161 Plan** (average meals per week – 10)
- **143 Plan** (average meals per week – 8)
- **110 Plan** – minimum plan (average meals per week – 7)
- **Platinum Plan** – 80 meals, $100 Flex Dollars per semester
- **Gold Plan** – 64 meals, $100 Flex Dollars per semester
- **Silver Plan** – 48 meals, $100 Flex Dollars per semester
- **Bronze Plan** – 24 meals, $50 Flex Dollars per semester

Additional plans are available exclusively for faculty/staff, commuting students and students living in Greek housing or University apartment housing; for more information on dining plans, please visit our Web site at www.uky.edu/diningservices.

### Dining Program ‘Unlimited Choices’ System

UK dining plans work on an ‘Unlimited Choices’ concept in the residential dining operations. Diners at Blazer Cafe and Commons Market will have the option to eat as much self-serve fruit, vegetables, grains and desserts as they please. Proteins such as burgers, chicken and other entrees will be served individually by Dining Services personnel and customers will have the ability to return to the line and receive more if they choose.

### Dining Program Combo Meals

Our retail dining units operate on a combo meal program. Students may use their dining plan to purchase combo meals at these locations:

- K-Lair Grill
- Student Center Food Court (except Chick-fil-A and Subway)
- Café du Chat
- OVID’s Café
- Intermezzo
- Ag North Deli
- The Lemon Twist
- On the Go areas at each residential dining location

### The Plus Account

The Plus Account is an optional account. It requires no minimum deposit and may be opened or added to in any whole dollar amount at any time during the semester. Students may open or add to their Plus Account at Student Billings, The Diner/Plus Accounts Office in 101 Student Center, and DARTs (printing lab machines). All Plus Account monies may be carried forward or are refundable less a $5.00 fee. This declining balance account is extremely versatile. The Plus Account may be used at these locations:

- All UK Dining Services restaurants and specialty shops
- University Bookstore
- Kennedy Book Store
- Wildcat Textbooks
- UK Medical Bookstore
- BCTCS Bookstore
- Singletary Center for the Arts
- Foreign Language Lab
- Computer lab printers
- Copiers at William T. Young Library and other campus libraries
- Residence hall laundry and vending
- Greg Page laundry and vending
- Student Health Services
- Student Health Pharmacy
- Student Center – Ticket Office, Student ID Office, Game Room
- Computer Store
- Underground Fitness Center

Students may also use the Plus Account to pay certain fees, such as chemistry breakage fees and payment for athletic tickets.

Check out the Dining Services Web site for the most up-to-date information about menu variety, hours of operation and detailed information about your dining plan options at www.uky.edu/DiningServices. Or for more information, e-mail Dining Services at contactudining@lsv.uky.edu.

### STUDENT PARKING AND CAMPUS BUS SERVICE

Students can access information on topics related to parking, applying for a permit, motorist assistance, bicycle parking, bus schedules, and review our FAQ’s on the Web at www.uky.edu/Parking. Here, students can also subscribe to Parking E-News to receive up-to-date parking and transportation news and information via e-mail. For questions or for information not found on the Web site, call Parking Services at (859) 257-5757 or 1-800-441-0555; or Transportation Services at (859) 257-7202.

### Parking

When parking on campus, students should purchase and properly display a University of Kentucky parking permit. Permits may be
obtained and renewed online at: www.uky.edu/Parking. The temporary convenience of illegal parking is rarely worth the hassle and expense of paying fines and getting your vehicle impounded. All R and C student lots require a valid permit by the Monday before classes begin on Wednesday. Bus service is provided from the K lots to Central Campus. A permit control sign at the entrance to each parking lot displays the hours when the lot is being controlled for permits. Reserved spaces within these lots are controlled for valid permits and during the hours indicated on the signs. Reserved parking spots include spaces reserved for residence hall directors and people with disabilities.

**Renewing Permits**

Students holding permits from the 2006-2007 academic year, and who are qualified for the same category of permit, may renew their permits May 1 through May 31. Other eligible students may apply for permits for the 2007-2008 academic year from June 1 through July 31, or until the supply of permits is exhausted. Any student who cannot obtain an R or C permit may obtain a K permit that is valid at Commonwealth Stadium. Freshmen and sophomores who commute are only eligible for K permits, while those who live on campus may apply for a K permit if their desired R permit is sold out. After August 1, applications for K permits will be accepted only online or via mail.

**Parking for Students with Disabilities**

Parking privileges will be granted to qualified students upon completion, acceptance, and approval of an application. The Disability Resource Center, 2 Alumni Gym, (859) 257-2754, will assist disabled students with the application process. Office hours are 7:30 A.M. to 5 P.M., Monday through Friday.

**Guest Parking**

Family and friends visiting campus during the week can park in Parking Structure #7 (near Kirwan-Blanding), Parking Structure #5 (next to Kennedy’s Book Store), at pay parking meters, or stop by Parking Services, located in Parking Structure #6 (721 Press Avenue), at the corner of Press and Virginia Avenues, to obtain a temporary parking pass. After hours and on weekends, a number of lots are not controlled for permits. A permit control sign at the entrance to each parking lot displays the hours when the lot is being controlled for permits.

**Short-Term Parking**

Parking meters are available in certain campus locations to allow temporary parking for visitors, employees and students. For your convenience, parking meters are located near the UK Bookstore, Funkhouser Building, Seaton Center and Memorial Coliseum. UK parking meters have time limits of either 45 minutes or three hours displayed on the meter post and on the tag inside the meter. The intent of 45-minute meters is to provide short-term parking; they are not intended for students attending class. In addition, certain meters are reserved for specific uses. These meters are identified by signs attached to the meter posts or a sign posted at the entrance to the parking lot.

**Avoiding Parking Citations and Keeping Your Car Safe**

- be sure you read and understand the information provided with your permit;
- do not park in fire lanes (red curbs), service areas (yellow and white stripes), loading zones (black and yellow stripes), or reserved spaces;
- do not share your permit with anyone else;
- report lost or stolen permits promptly to Parking & Transportation Services;
- do not assume that because other cars are parked illegally that you may do so;
- do not park in violation, (e.g., yellow lines and fire lanes) with hazard lights flashing;
- do not leave notes in your vehicle for parking control officers;
- keep your vehicle locked at all times.

**Campus Bus Service**

Students do not pay a fare when riding the LexTran campus buses and the Campus Area Transit System (CATS) shuttle buses. (There is a fare associated with LexTran service off campus.) Support for these bus services comes from parking permit fees. LexTran and CATS buses are equipped with a wheelchair lift.

All commuter students and students living on campus may ride the LexTran campus buses to and from central campus, residence halls, and Commonwealth Stadium between 7 A.M. and 6:15 P.M., Monday through Friday, during the fall and spring semesters. LexTran bus service begins on Wednesday at the start of classes in August and January, and only operates on those weekdays when UK is in official session. The LexTran campus buses make about 120 trips each day to and from Commonwealth Stadium and central campus. LexTran buses run about five minutes apart during peak hours for classes, and about ten minutes apart during off-peak hours.

The University supplements the bus service by providing additional daytime and night shuttle buses to areas of campus not served by LexTran. The daytime CATS service operates three bus routes on Monday through Friday when UK is in official session. One CATS bus runs on a limited route during breaks when class is not in session but the university is open. The night service operates on a fixed route on Monday through Thursday between 4:30 P.M. and 11 P.M. during fall and spring semesters. In addition, the night service operates on demand for students who need transportation around campus, such as between Commonwealth Stadium and the residence halls. Students may phone the driver directly at (859) 221-RIDE (7433) to make pick-up requests. The schedule for on-demand service is:

- Monday-Thursday 11 P.M. - 5 A.M.
- Friday 7 P.M. - 5 A.M.
- Saturday 7 P.M. - 2:30 A.M.
- Sunday 7 P.M. - 11:30 P.M.

The bus driver will make every effort to accommodate reasonable requests. In addition to the Web site, you will find route and schedule information displayed at the major bus stops, or by visiting Parking Structure #5, located next to Kennedy’s Book Store, or Parking Services, located at 721 Press Avenue (at the corner of Virginia and Press Avenues).

**Lexington Bus Service**

Students who live off campus may find that riding a LexTran city bus to and from campus is more convenient and less expensive than parking on campus. LexTran offers the Class Pass, a student pass providing unlimited LexTran rides throughout the city. Class Passes are $75 for the school year or $50 per semester (prices subject to change). For the convenience of students, Class Passes are available for sale at each of the PTS offices. For more information on the Class Pass, LexTran routes and schedules, visit their Web site at: www.lextran.com; or call (859) 255-7756.

**Bicycle Parking**

Bike racks are located in front of most every residence hall and classroom building, totaling nearly 2,500 bicycle spaces on campus. Use a bicycle rack at all times and don’t chain your bike to a bench, tree, handrail or telephone pole. Just like cars, bikes can be impounded if they are parked in violation.
Otis A. Singletary Center for the Arts

Located on the corner of Rose Street and Euclid Avenue, the Singletary Center for the Arts serves as the primary performance facility for the University, as well as for many community and regional events. The Center includes a 1500-seat Concert Hall and a 400-seat Recital Hall, both designed for acoustical excellence.

The Singletary Center opened in the fall of 1979 and has hosted an average of 400 events annually, with 123,000 patrons attending each year. In addition to presenting almost 175 annual performances by the School of Music faculty and students, the Center presents two concert series: the Corner on Classics Series and the Turning the Corner Series.

The Singletary Center is also the primary performance venue of the community arts organizations, such as the Lexington Philharmonic Orchestra, the Central Kentucky Youth Orchestra, the Chamber Music Society of Central Kentucky, and the Lexington Men’s and Women’s Choruses. In addition, the Center houses the Gallery at the President’s Room, which showcases regional, local, and student art exhibits. Admission to the Gallery is free.

The Center offers discounts and/or free admission to numerous programs for students, faculty and staff with a valid UK ID. For more information, call (859) 257-1706; or visit online at: www.uky.edu/SCFA. For ticket information, call the Singletary Center Ticket Office at (859) 257-4929. To buy tickets online, visit: www.uky.edu/SCFA. The ticket office is open 12 P.M. to 5 P.M Monday through Thursday, 12 P.M. to 6 P.M. on Friday, and 12 P.M. to 5 P.M. on Saturday if there is a ticketed performance.

Corner on Classics Series

For 28 years, the Singletary Center for the Arts has provided students with the best of the classical music world. The Corner on Classics Series, sponsored by the Singletary Center and the College of Fine Arts, offers audiences the highest standards of artistic excellence usually found in major metropolitan art centers. Each year, the series features five classical concerts by world-renowned musicians. Past performers include the Canadian Brass, the King’s Singers, the Moscow State Radio Symphony Orchestra with Navah Perlman, Denyce Graves, Savion Glover, and Mark O’Connor.

Don’t miss the opportunity to see some of the world’s best performers right here on UK’s campus. UK faculty, staff, alumni, and student tickets are sold at discount prices with a valid UK ID, both individually and by subscription. Student rush tickets are offered for $15 one hour prior to concerts, upon availability.

For more information about the Corner on Classics Series, performers, tickets and dates, call (859) 257-4929; or check out the Web site at: www.uky.edu/SCFA.

Turning the Corner Series

The Singletary Center and the Arts Administration Program created the Turning the Corner Series in 2002. By featuring artists that are primarily rooted in the traditional mediums of folk, acoustic, and Americana genres, this series provides UK students with the opportunity to enjoy popular entertainment while experiencing the cultural atmosphere of the UK campus. The series has hosted performers such as Ben Folds, the Indigo Girls, Nickel Creek, Bela Fleck and the Flecktones, Wilco, and The North Mississippi Allstars. Students are encouraged to participate in selecting performers. Stop by the Singletary Center with suggestions and stay tuned for announcements regarding the upcoming season selections and ticket release dates.

For more information, call (859) 257-1706. For ticket information or to purchase tickets, call (859) 257-4929; to buy tickets online, go to: www.uky.edu/SCFA.
Theatre

The Department of Theatre offers a variety of productions each year, from classical to contemporary, from provocative to traditional. This range provides stimulating fare for the University and the community.

All University of Kentucky students are eligible to audition for plays. Students may also participate in other theatre-related activities such as wardrobe, scenic, and lighting crews. Students completing assignments on stage or backstage may receive credit through the departmental practicum program.

Auditions and crew assignments are generally made at the beginning of each semester. For more information, students may consult the bulletin board outside the theatre office in the Fine Arts Building; contact the theatre office at (859) 257-3297; or visit the Web site at: www.uky.edu/FineArts/Theatre.

The Department of Theatre and members of its faculty participate in or are members in the Kentucky Theatre Association, the Southeastern Theatre Conference, the American Theatre in Higher Education, the American Society for Theatre Research, United States Institute for Theatre Technology, and United Scenic Artists.

University Concerts

The School of Music sponsors a variety of recitals and concerts throughout the year by faculty and students. Faculty musical ensembles include the Faculty Brass Quintet and the McCracken Wind Quintet. Student organizations include the Symphony Orchestra, the Wind Ensemble, Symphonic Band, the University Choristers and Chorale, the UK Jazz Ensembles, the Percussion Ensemble, the Trombone Choir, the Tubu Ensemble, Opera Theatre, Mega-Sax, Paws and Listen, and the AcoUstiKats.

Faculty recitals, faculty ensemble concerts, and concerts by student organizations are usually free to students, faculty, staff, and to the community.

Chamber Music Society of Central Kentucky

The Chamber Music Society of Central Kentucky offers a series of concerts featuring outstanding chamber music ensembles of national and international reputation. Most performances are held on campus at the Singletary Center for the Arts. Tickets are available individually or by subscription. A limited number of free tickets are available to students with a valid UK ID at the Singletary Center Ticket Office. For ticket information, call (859) 257-4929.

Lexington Philharmonic Orchestra

The Lexington Philharmonic Orchestra is conducted by George Zack and performs regularly in the Concer Hall of the Singletary Center for the Arts. The orchestra plays a varied repertoire and features outstanding guest soloists at each concert. Tickets are available individually or by subscription. A limited number of free tickets are available to students with a valid UK ID at the Singletary Center Ticket Office beginning on the Wednesday prior to each concert. For ticket information, call (859) 233-4226.

Martin Luther King Jr. Cultural Center

The Martin Luther King Jr. Cultural Center (MLKCC) was established at the University of Kentucky in 1986. The goal was to contribute positively to the recruitment and retention of African-American students by aiding in the development of a more hospitable and supportive campus environment. To achieve this goal, the center offered a relaxed, yet stimulating environment where all students of the university came together to be enriched through diverse cultural exchanges.

One of the primary missions of the Martin Luther King Jr. Cultural Center is to help connect people by providing spaces for interaction, as well as through programs. Programmatic, the MLKCC reaches out to various communities on campus, students, faculty, and staff and to the greater Lexington community to foster an understanding and appreciation of the values and cultural heritage of people of various diversities.

Additionally, the center aims to provide student support and development by offering workshops to aid in the development of students; advising various organizations; providing meeting space; and employing student workers. The center also provides community outreach and development by extending its programs, services and resources to social, civic and cultural groups and works cooperatively with them.

The center is located in 133 Student Center (across from UK Bookstore) and is open Monday through Friday. For more information, call (859) 257-4130; or visit the center’s Web site at: www.uky.edu/MLKCC/index.html.

University Art Galleries

The University has four main art galleries. The Department of Art sponsors The Tuska Gallery, the main exhibition space of the Tuska Center for Contemporary Art, located in the Fine Arts Building. The Tuska Center brings to campus a series of exhibitions of cutting-edge, provocative art in traditional and experimental media of regional and national importance. The gallery was dedicated to the late John Tuska, University of Kentucky faculty emeritus, in 1996. The Raymond Barnhart Gallery in the Reynolds Building houses B.A. and B.F.A. senior exhibitions as well as juried shows. The Barnhart is home to the Department’s annual Open Studio held the first Friday in December.

The Rusdall Gallery in the Student Center is run by a student board and features work by local, regional, and national artists in a variety of media. The Pence Hall Gallery, under the direction of the College of Design, combines exhibits of architectural interest featuring painting, drawing and sculpture.

University of Kentucky Art Museum

The University of Kentucky Art Museum, the second largest in Kentucky, is accredited by the American Association of Museums. The collection of more than 3,800 objects includes nineteenth- and twentieth-century European and American works, photographs, decorative arts, including a collection of Tiffany glass, Italian Baroque paintings, contemporary and old master prints, African and pre-Columbian sculpture, and regional art. The museum serves a regional audience with a wide variety of changing exhibitions, education programs, and permanent collection displays.

Prearranged group and class tours led by museum volunteers or staff are welcomed and encouraged. The museum offers a museum studies course, training opportunities for work-study and experiential education students, and undergraduate and graduate internships for a limited number of applicants each year. In addition, students are eligible for free museum membership, entitling them to e-mailed information about exhibitions and events and a discount in the museum shop. For information on becoming a student member, visit our Web site at: www.uky.edu/ArtMuseum.

The University of Kentucky Art Museum, located in the Singletary Center for the Arts, is open noon to 5 P.M. Tuesday through Sunday, and Friday noon to 8 P.M. The museum is closed on Mondays and University holidays. Admission is free for students, faculty and staff.

William S. Webb Museum of Anthropology

The William S. Webb Museum of Anthropology is the major curation facility for archaeological collections in the state. The Museum was founded in 1931 by William S. Webb, and houses many unique collections recovered from archaeological excavations all across the Commonwealth. Every year we welcome researchers from all parts of the world who come to study, photograph and interpret the material culture collections representing 12,000 years of Native American life in Kentucky, and the last 200 years or so of the Commonwealth. Exhibits in Lafferty Hall interpret the culture history of Kentucky’s Native peoples for school groups, the University and the regional community. The Museum is open to the public Monday through Friday between 8:30 A.M. and 4 P.M. except when the University is closed. There is no admission charge, and the exhibits are ADA compliant. Researchers are welcome to apply to the Museum for collections access.
The University of Kentucky Libraries offers students many services all around campus. In addition to the William T. Young Library (which is open 24 hours during the school year), the library has operations in many of the colleges. Once your student ID is validated by the library, you can use it at any library location or you can do much of your library research from home.

Everyone is welcome at all of our locations, regardless of major. All of our libraries are connected and all databases and electronic resources are available in all of the libraries. Each library has knowledgeable staff who are always glad to help you find what you need. The library offers many things from checking out a laptop to helping you with your information searching. You can check out the library by going to: www.uky.edu/Libraries.

The library employs several hundred students each year in jobs ranging from computer work to a friendly face at a service desk. No experience is required and the work schedules range from during the school day to working in the middle of the night. There is a wide range of opportunities for employment in University Libraries. You can find an employment application form on the Web site.

What you can do in the library:
- Reserve a room to study with friends
- Check out a laptop
- Get help doing your research
- Get help in writing your papers in the Thomas D. Clark Study
- Listen to a concert
- Check out a video
- Borrow books from other libraries
- Read a hometown newspaper (if you are from Kentucky)
- Take a food and drink break
- Get help from academic tutors
- Get a job
- Work with classmates in electronic workspaces designed for group work
- Practice your presentations in “smart” rooms
Student Services and Activities

DEAN OF STUDENTS OFFICE

The University of Kentucky Dean of Students Office provides both administrative and educational services that support the personal and academic success of students. The office provides extracurricular, non-academic educational programs and also collaborates with academic units to provide support for students in reaching their educational goals.

University Discipline

University of Kentucky students are citizens of two communities – the academic community and the city of Lexington. All students are subject to institutional disciplinary procedures when offenses are committed against the University or its community of scholars. The Code of Student Conduct adopted by the Board of Trustees, revised July 1, 2005, sets rules for student behavior that are consistent with the goals and purposes of this academic institution and establishes procedures which insure equality and fairness in dealing with all students. The Code of Student Conduct: Rules, Procedures, Rights and Responsibilities Governing Non-Academic Relationships, comprises Part I of Student Rights and Responsibilities. This publication also contains: Part II – “Selected Rules of the University Senate Governing Academic Relationships”; Part III – “Regulations Governing Time, Place, and Manner of Meetings, Demonstrations, and Other Assemblies”; Part IV – “Alcohol Policy”; and Part V – “Student Records.” A printed copy may be requested from the Dean of Students Office, 513 Patterson Office Tower, and it is available on the Web at: www.uky.edu/StudentAffairs/Code.

While the University is a place where the search for truth is carried on through free inquiry, it is not a sanctuary for those who seek freedom from moral, social and legal obligations. As residents of Lexington, students have the same rights and responsibilities as other citizens.

Fraternities and Sororities

The University of Kentucky hosts 26 national fraternities and 17 national sororities. The undergraduate members are primarily responsible for operating these groups, with the assistance of a house director, local alumni and University advisors. The advisors are concerned with all areas of fraternity and sorority operations – recruitment, pledging, scholarships, housing, finance, leadership, personal growth and University involvement.

Sororities affiliated with the National Panhellenic Council hold a formal recruitment period the week prior to school opening in the fall. This is followed by open membership selection throughout the year for candidates to fill available vacancies.

Fraternities affiliated with the North American Interfraternity Conference host a recruitment week at the beginning of both the fall and spring semesters. Open recruitment takes place throughout the remainder of the school year.

Sororities and fraternities affiliated with the National Pan-Hellenic Council will announce individually their membership intake process during the semester. Pledging is not a prerequisite for membership.

Sororities and fraternities at the University of Kentucky follow the dictates of The Code of Student Conduct which prohibits student organizations from discriminating against any person due to race, color, or religious affiliation or belief.

The governing bodies for Greek life are the Interfraternity Council, the Panhellenic Council and Pan-Hellenic Council comprised of representatives from each group on campus. The Inter-Greek Programming Assembly coordinates Greek service activities and chapter recognition.

The Office of Fraternity and Sorority Affairs, the Interfraternity Council, the Panhellenic Council and the Pan-Hellenic Council are located in 575 Patterson Office Tower. For more information, call (859) 257-3151; or, access the fraternity and sorority Web site at: www.uky.edu/StudentAffairs/Greek.

University Health Service

The University has a comprehensive health care program for all University of Kentucky students. Located in the Kentucky Clinic on Rose Street across from the University Hospital, University Health Service provides outpatient medical and mental health services. The Medical Service provides consultation and treatment for illnesses and injuries, incorporating a broad range of primary care and preventive medicine disciplines. The Mental Health Service assists students with personal and emotional problems. Student health records are strictly confidential and may be released only as permitted by applicable state and federal law.

The regular semester clinic hours are 8 A.M. to 6 P.M., Monday through Friday; and 9 A.M. to 11 A.M. on Saturday (fall and spring semesters). Summer hours and hours when school is not in session are 8 A.M. to 4:30 P.M. After hours, urgent care is available at the University Hospital Emergency Room or local urgent treatment centers. However, the University of Kentucky and University Health Service assume no responsibility for the cost of after-hours care.

Payment of the mandatory registration fee by full-time students entitles them to use the services provided by the Health Service during the regular fall and spring semester for reduced or no cost. Part-time students may use the health service on a fee-for-service basis or may pay a semester health fee. The summer health fee is voluntary for all students and must be pre-paid by the first day of classes. Summer students may also choose to be seen on a fee-for-service basis.

University Health Service does not cover the expense of referrals, hospitalization, after-hours care, accident care, and surgical services. University of Kentucky Health Service, University Hospital and other UK HealthCare programs assume no responsibility or liability for medical expenses incurred by students beyond those covered by University Health Service. It is highly recommended that all students carry health insurance. Immunizations required or recommended by federal and state agencies, CDC, and ACHA are also required/recommended for UK students. (NOTE: All international students are required to have university-approved health insurance.) For more information about health insurance, contact University Health Service, University of Kentucky, B-163 Kentucky Clinic, Lexington, KY, 40536-0284, (859) 323-5823 ext. 230.

For questions or further information, call (859) 323-5823; or visit us on the Web at: www.uky.edu/StudentAffairs/UHS/

Religious Affairs

While the University does not directly sponsor religious activities, it both welcomes and supports the diverse religious traditions and organizations on campus. A member of the Dean of Students staff assists religious groups through the Religious Advisors Staff, an organization of campus ministers and religion-based student organizations. The Religious Advisors Staff includes the following: Athletes in Action, Bahá’í Association, Baptist Campus Ministry, Campus Crusade for Christ, Catholic Newman Center, Chi Alpha Christian Fellowship, Christian Student Fellowship, Church of Christ/CATS for Christ, Disciples of Christ, Graduate Christian Fellowship, Inter-Varsity Christian Fellowship, Jewish Student Organization/Hillel Foundation, Lutheran & Episcopal Campus Ministry, Muslim Student Association, Orthodox Christian Student Association, Presbyterian Campus Ministry, Reformed University Fellowship, and United Methodist Center Wesley Foundation.
For more information or a list of the student organizations, contact the University Liaison, Dean of Students Office, 2 Alumni Gym, (859) 257-2754.

Alcohol Education Office

The mission of the Alcohol Education Office is to empower students within the UK community to make healthy lifestyle choices, particularly as it relates to alcohol. We offer a variety of resources that encourage responsible decision-making (including abstinence) that is low-risk to our students and the surrounding community. The CAUSE (College Alcohol Use Student Educators) peer education group implements programs campus-wide to educate UK students about making low-risk decisions. For more information about The CAUSE or services the office provides, contact the Alcohol Education Office at (859) 257-9687, or visit our Web site at: www.uky.edu/StudentAffairs/HealthAlcohol.

UK Parent Association

The UK Parent Association welcomes all parents and guardians of UK undergraduate students to its membership. At no cost to its members, the Parent Association publishes the Family Focus newsletter for families of freshmen and sophomores, as well as the Insider’s Guide handbook for families of new UK students. In addition, the association coordinates events for students and families during Family Weekend. The Parent Association provides regular campus updates in the Cat Chat e-mail newsletter and assists parents with questions and concerns related to their students and UK. The Parent Association is coordinated through the Dean of Students Office.

Contact Nancy Stephens, the Parent Association Coordinator, at (859) 257-6597 or parents@lsv.uky.edu. More information is available online at: www.uky.edu/Parents.

Disability Resource Center

The mission of the Disability Resource Center is to provide and coordinate services that will allow students with disabilities equal access to the University’s educational, social, and cultural opportunities. Students with temporary disabilities, documented physical or learning disabilities, or who want to learn more about disability concerns may receive assistance and support from this office. Services are tailored to meet the needs of individual students based on their specific disabilities. The services provided through the Disability Resource Center include, but are not limited to, determining needed classroom and exam accommodations, providing priority advance registration, assigning sign language interpreters, screening applicants for disability parking permits, assisting with campus arrangements, and providing information about other available campus resources.

Students with permanent disabilities include individuals with physical conditions, medical disorders, learning disabilities, attention deficit/hyperactivity disorder, and other psychological disorders. Students with temporary disabilities include those who are recovering from surgery or who are being treated for temporary medical conditions (sprained ankle, broken leg, etc.). All students must provide current documentation of their disability and the need for accommodations before services can be provided.

Students with cognitive disabilities frequently request classroom and exam accommodations. Eligibility for these accommodations is based on current documentation of the disability that validates the need for the requested services. A current psychological assessment using comprehensive adult cognitive measures (i.e., WAIS-III, WJ-Cognitive) and comprehensive achievement measures (i.e., WJ-Achievement, WJAT) is required for all students with learning disabilities. The psychological report must provide educational history, functional limitations, fully disclosed standard scores and percentiles for all normed measures, and need for accommodations. Students with ADHD or other psychological disorders must provide current medical or psychological documentation of their diagnosis that confirms their educational history, functional limitations, and need for accommodations.

All students with disabilities are urged to register with the Disability Resource Center and obtain information about the various types of assistance available to them. The office is located in 2 Alumni Gym. For more information, call (859) 257-2754 (voice/TDD); or visit online at: www.uky.edu/StudentAffairs/DisabilityResourceCenter/.

CAMPUS RECREATION

The Department of Campus Recreation offers wholesome physical activities and sports programs for students, faculty and staff. Activities include intramural sports, club sports, outdoor pursuits and adventure trips, leisure recreation, and fitness programs.

Bernard Johnson Student Recreation Center

The Bernard Johnson Student Recreation Center is an 87,000 square-foot state-of-the-art facility. The Center has the latest in equipment and amenities. Major spaces include basketball courts, racquetball courts, a fitness center, aerobics studios, a climbing wall and more. All students are encouraged to visit the Center and make positive, healthy use of leisure time.

Lancaster Aquatic Center

Lancaster Aquatic Center is available for recreational swimming during open hours. For information, call (859) 257-7946.

Intramural Sports

The Intramural Sports program provides competition between students at UK. Individual, dual, and team sports events are available. Teams are organized into the following divisions: residence halls, fraternities, sororities, independents, and faculty and staff.

Club Sports

The Club Sports program provides opportunities for UK students, faculty, and staff who desire a more in-depth sports experience than is provided in the Intramural and/or open recreation program. For a list of current club sports, contact the Department of Campus Recreation at (859) 257-3928.

Adventure Trips

The Outdoor Pursuits program offers a variety of adventure trips for UK students, faculty, and staff. The trips vary from day hiking in the beautiful wild regions of Kentucky, to a weekend of whitewater rafting in West Virginia, to snow skiing at one of the regional spots close to Lexington.

For More Information

For more information about recreational programs or facilities, contact the Department of Campus Recreation, 177 Johnson Center, (859) 257-3928. Visit us on the Web at: www.uky.edu/StudentAffairs/CampusRec.

STUDENT CENTER

The University of Kentucky Student Center is the “living room” of campus. Students are welcome to watch their favorite television program in the Cat’s Den, eat at one of our many dining venues, or just study in a relaxing atmosphere. Students, faculty and staff are also invited to check their e-mail on one of the available wireless laptops available in the Cat’s Den. Or enjoy sipping a cup of coffee at Starbucks. The Cat’s Den plays host weekly to the Comedy Caravan featuring national touring comedians, and offers many leisure, entertainment and recreational opportunities. Each year the Student Center hosts over 7,000 events with over a million visitors. Come be a part of your Student Center.

Those interested in becoming active on campus can visit the Student Organizations Center, Office of Student Involvement, or inquire about becoming a member of Student Government in the SGA office. Want to purchase a ticket to an upcoming concert or UK event? The Student Center has a Ticket Office with full Ticketmaster services. The Student Center is also the location of the official UK Bookstore, home to one of the branches of the University of Kentucky Federal Credit Union, and houses S.T.A., the student travel agency.

Our professional and student staff aims to provide an atmosphere of social and intellectual interaction in an informal setting. There are many
opportunities for students to gain experience in management, and marketing, as service representatives, and in public relations through employment opportunities at the Student Center. For more information or to reserve a room, call the Director’s Office at (859) 257-5781.

Student Organizations

Student organizations are formed as a result of student interest and serve the needs of a variety of students. Many provide programs that supplement the classroom experience and extend into areas of service for the community. All provide leadership and leadership training for participating students and also build relationships across the UK and local community.

There are over 350 registered student organizations on the UK campus. These include governmental, political, social sororities and fraternities, honors and leadership organizations, recognition societies, departmental/professional organizations, and special interest groups such as the Black Student Union, Cosmopolitan Club, and various religious, athletic, community service, media, and international groups.

For more information about student organizations and campus activities, contact the Student Organizations Center, 106 Student Center, (859) 257-1099. Or visit: www.uky.edu/GetInvolved/StudentOrgs/.

Leadership Development

The Division of Student Affairs sponsors a variety of leadership programs to complement the academic experience. The Emerging Leader Institute provides first-year and sophomore students with the opportunity to develop leadership skills and expand their understanding of the principles in leadership. Applications and course schedules for the institute are available online at: www.uky.edu/GetInvolved/Leadership/ELI.

Course components include structured experiences in critical and creative thinking, ethical decision making, applied leadership styles, effective communication, visioning and project planning, and developing mentor relationships. The institutes are selective in admission and participating students earn academic credit.

The Leadership Library has been established to support and enhance the student leadership development programs of UK. The Library houses material resources such as books, videos, workshops, newsletters, etc., that focus on leadership development issues including:

- Leadership Skills;
- Leadership in Student Organizations;
- Leadership Theory;
- Leadership & Gender Studies;
- Servant Leadership & Service;
- Organizational Leadership;
- Ethics & Morals;
- Personal Development.

A list of all materials located in the Library is online at: www.uky.edu/GetInvolved/Leadership/library.html. UK students, faculty and staff who are interested in learning more about leadership theory and practice may check out these reference materials by presenting their UKID cards.

The University Leadership Summit is a year-long leadership experience for the top 100 student leaders at UK. This prestigious experience starts with a three-day leadership conference in September and continues throughout the year with a series of monthly leadership summits and starts with a three-day leadership conference in September, and continues throughout the year with a series of monthly leadership summits and projects. Participating in the Summit will build unity among campus leaders, create a collaborative campus climate, provide basic leadership training, and increase Wildcat pride. More about the University Leadership Summit is online at: www.uky.edu/GetInvolved/Leadership/academy.html. In order to participate in the summit, students must be nominated by a member of the UK faculty, staff, or current student leader.

For more information regarding leadership development opportunities, contact the Office of Student Involvement at (859) 257-1099 or (859) 257-8867.

Student Volunteer Center

The UK Student Volunteer Center (SVC) is a student-run program that joins groups of students who are interested in enhancing their community, as well as their college experiences, by volunteering. With a student team and advisory staff, UK’s Student Volunteer Center hosts a number of regular service events. These events include small- to medium-group projects in the areas of health and wellness, outdoor excursions, elderly companionship, hunger and homelessness, and youth activities. In addition, the SVC offers large-scale service projects. UK FUSION is a one-day service project that includes hundreds of students and staff members volunteering at over 50 community agencies in the Lexington area. UK Dance Blue is a 24-hour dance marathon hosted by the SVC to benefit the Pediatric Oncology Unit at University Hospital. Students who are interested in volunteering on an individual basis can attend the Student Volunteer Center’s Volunteer Fair, which occurs each semester. Community agencies from Lexington and beyond send representatives to inform students about their agencies and volunteer opportunities. For more information, stop by 106C Student Center (in the Student Organizations Center), call the SVC at (859) 257-9385, or visit: www.uky.edu/VolunteerCenter/.

ACADEMIC OMBUD SERVICES

The Academic Ombud helps resolve academic disputes between students and faculty or administration. When students are unable to resolve grievances or complaints through usual means, the ombud may be able to expedite the process or advise the student about the proper procedures to follow. Problems include, but are not limited to, violation of students’ academic rights, unfair teaching and grading practices, cheating and plagiarism, and discrimination and harassment. All cases are held in strict confidence.

The Office of Academic Ombud Services is open from 8 A.M. to 4:30 P.M. and is located in 109 Bradley Hall. For information, questions, or appointments, call (859) 257-3737.

FINANCIAL OMBUD SERVICES

The Financial Ombud provides a neutral and confidential setting for current and prospective students and their parents to discuss difficult or unusual financial problems affecting tuition and fee payment. The Financial Ombud resolves problems, counsels, and makes recommendations and referrals as needed.

The Office of the Financial Ombud Services is open from 8 A.M. to 4:30 P.M. and is located in 18 Funkhouser Building. For information, questions, or appointments, call (859) 257-3406.

ATHLETICS

The University of Kentucky sponsors athletic teams in both men’s and women’s sports and is a member of the National Collegiate Athletic Association and the Southeastern Conference. The University fields representative teams in a variety of varsity sports: basketball, football, baseball, tennis, golf, track, soccer, swimming, and rifle for men; and basketball, golf, gymnastics, rifle, soccer, swimming, tennis, track, softball, and volleyball for women. These various teams provide wholesome entertainment for the student body, faculty, staff, alumni, and general public. Students interested in joining a team should contact the head coach’s office in the sport of interest.

The Athletics Association helps support the band, cheerleaders, and the Student Athletic Committee; aids the Kentucky High School Athletic Association by supplying facilities for district, regional and state tournaments in all sports; provides athletic scholarships for approximately 370 student athletes; and provides grants to the University of Kentucky for academic scholarships.

INTERNATIONAL AFFAIRS

Under the direction of the Director of International Affairs, the Office of International Affairs (OIA) provides leadership, coordination, and service to the University of Kentucky and the community in four areas: service to international students and scholars; education abroad programs and services; international research contracts and grants to offer

www.uky.edu/GetInvolved/Leadership/library.html
overseas experiences to faculty and staff and to attract international students to UK, and internationalization of the curriculum, campus, and community. OIA is located in Bradley Hall.

**OIA SERVICES**

**International Student Advising**

The Assistant Director for International Student Services arranges the meeting and greeting of arriving international students, organizes Welcome Week activities, presents with others an orientation program on our educational system and culture, counsels students on non-academic concerns, develops cross-cultural activities for internationals and Americans, and is liaison to the International Hospitality Program. For additional information, call (859) 257-4067, ext. 237.

**Immigration Specialists**

Immigration Specialists provide advice regarding immigration matters to international students, researchers, and faculty, and assist academic departments with the hiring and retention of international personnel and faculty. For additional information, call (859) 257-4067, ext. 241, (students, room 215), ext. 240, (scholars, room 211), ext. 228 or 239, (academic departments).

**Development Contract Services**

The contracts and grants unit provides assistance throughout the University in preparing technical proposals for international contracts and grants. It also provides project management and implementation services for multi-college projects. For additional information, call (859) 257-4067, ext. 232.

**Education Abroad Services**

Education Abroad Services provides information, counseling, and services for students, staff, faculty and community members interested in working, traveling, or studying abroad. UK offers summer, semester, and year education abroad programs in many countries. Education Abroad Services coordinates scholarship programs such as Deauville Exchange, English-Speaking Union Scholarships, Fulbright Graduate Scholarships, Heidelberg Scholarships, Marshall Scholarships, OIA Scholarships, New Horizon Scholarships, and Rhodes Scholarships. Students can purchase International Study Identity Cards, the Youth Hostel Pass, and the Eurail Pass from this office. The Education Abroad Library is located in Bradley Hall. For additional information, call (859) 257-4067, ext. 236 or 248.

**Community Relations**

The Community Liaison professional staff person organizes opportunities for international students to interact with the Lexington community, particularly schools, fills requests from the community for translators, information and international programming, and serves as Executive Director for Kentucky-Ecuador Partners of the Americas and the contact for Peace Corps information. For additional information, call (859) 257-4067, ext. 226.

**Health Insurance Advisor**

The Health Insurance Advisor provides information on the mandatory international health insurance requirement for UK international students and scholars. For additional information, call (859) 257-4067, ext. 238.

**Other Functions Offered by OIA**

Some other functions of the Office of International Affairs include negotiating new linkages with overseas institutions, acting as an information source for faculty Fulbright applications, hosting foreign visitors, encouraging internationalization of courses in a variety of disciplines and new education abroad programs, and helping to initiate and implement new ideas in residence life such as Jewell Hall International Living and Learning Center, and in curriculum such as International Studies and World Regional/Foreign Language Concentrations and the topical major in International Studies. For additional information, contact:

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**Office of Multicultural Student Affairs**

The University of Kentucky prepares students for meaningful and responsible engagement within and across diverse communities. Through its own example and engagement, the University strives to improve the climate for diversity throughout Kentucky, a commitment given special importance and emphasis by shared history. The composite effect of work with students in classrooms, residence halls, offices, laboratories, clinics, libraries, and public places should be to enable them to develop a more enlightened worldview; attain a deeper understanding of and commitment to authentic democratic values and social justice; embrace a greater commitment to service and leadership for the common good; exhibit greater cultural knowledge and competence; and facilitate Kentucky’s success in the global economy.

The Office of Multicultural Student Affairs has a primary responsibility to advance the University’s commitment to embracing difference and promoting increased knowledge of diversity and its significance as a fundamental value of the campus community. Of equal importance is its mission to provide academic support services to help ensure the academic success and personal development of all students, but especially those students from backgrounds that have historically been underrepresented on the University campus.

**Martin Luther King Jr. Cultural Center**

The Martin Luther King Jr. Cultural Center promotes teaching and research about Africa, the African Diaspora and the African American experience at the University, as well as in the society; builds awareness of African American culture within the campus community; and supports outreach to enhance teaching about African American culture in Kentucky schools and to increase understanding of African, African Diaspora and African American culture in Kentucky’s communities. The center maintains a collection of books, periodicals, multimedia kits, records, and audio and videotapes that relate to the diversified aspects of African American culture.

The Center offers a relaxed but stimulating atmosphere, and strives to enhance the retention of African American students by providing a variety of educational and social activities throughout the year including lectures, workshops, seminars, art exhibits, theater, music and dance. The Center is located in 124 Student Center and is open Monday through Friday from 10 A.M. to 6 P.M. For more information, call (859) 257-4130.

**Learning Services Center**

The Learning Services Center provides a comprehensive academic support system that consists of:

- Tutoring
- Organized Study Groups
- Academic Planning Assistance
- Learning Skills Assistance (note-taking, test-taking strategies, time management, study skills and writing assistance)
- Help with Personal Problems
- Peer Mentoring Program
- Freshman Summer Program (academic enrichment program)
- Career Fair
- Workshops
- Computer Lab

For more information, call (859) 323-6347, or stop by the Center at 660 South Limestone Street.
Student Support Services

Student Support Services (SSS) is a federally-funded TRIO program designed to provide comprehensive academic support to improve academic performance and increase retention and graduation rates. Participation in SSS requires that a student be a U.S. citizen and at least one of the following: (1) first-generation college – neither parent has a baccalaureate degree; (2) low income – according to federal guidelines; and (3) have a documented disability. When a student has been accepted into the program, all program services are free. Services offered include: individual and group tutoring (in any subject), academic planning, personal counseling, peer mentoring, career counseling, financial aid information, study skills instruction, writing assistance, graduate school preparation, technology assistance, cultural/social activities, and limited computers, calculators, and a small resource library for check-out and on-site use.

Students interested in becoming a part of the SSS program should stop by the office at 6 Alumni Gym to pick up an application; or call (859) 257-9797 to request an application be mailed to you, or for additional information.

Minority College Awareness Program

The Governor’s Minority College Awareness Program at the University of Kentucky is comprised of several early intervention components focused on preparing African American and other underrepresented students for success in postsecondary education institutions. In addition to the component that meets at UK, components are also hosted at Winburn Middle School (RAP – Realizing Academic Potential) and YMCA Black Achievers Program/7th and 8th Grade Education Enhancement Cluster that meets at Lexington Traditional Magnet School.

Each component integrates a primary focus on mathematics with other disciplines such as science, African American history, language arts and communications. Student participants are identified for MCAP based upon referrals from schools, churches, parents and other sources. Parents are required to support their children through transportation and participation in parent workshops, seminars and other open house activities. For more information, contact the director at (859) 257-4098.

Professional Colleges Multicultural Student Affairs Office

This office provides support for the recruitment and retention of underrepresented students and University employees. To help accomplish this vital task, the Office provides leadership and academic support services to students seeking or enrolled in health professions degrees. Additionally, the Office provides social and cultural programs that affirm the social and cultural heritage of underrepresented students and encourages all students to embrace diversity. The office serves as a resource to Health Care College constituencies on diversity issues and encourages all students eligible for services. However, the Counseling & Testing Center does not have adequate resources to treat all types of psychological problems. Certain students will require more specialized or comprehensive treatment than we can offer. Those individuals will be referred to resources in the community following an evaluation.

Minority College Awareness Program

For information about making an appointment, call (859) 257-8701 between 8 A.M. and 5 P.M., Monday through Friday. Referral from another campus agency is not necessary. The Counseling & Testing Center is located in 201 Frazee Hall next to the Student Center.

Experiential Education and Career Services

Experiential Education and Career Services, located in the James W. Stuckert Career Center, is a comprehensive and centralized career center for all students enrolled at the University of Kentucky. The Center’s programs are designed to help students, faculty and employers integrate occupational and employment information into educational experiences, extracurricular activities and work. Counselors at the Center work with students from their first-year experience through degree completion and beyond, helping them define goals, explore career possibilities, and obtain employment related to their education.

Through individual appointments and group workshops, career counselors assist students with assessment of individual interests, life/work values, skills and decision-making styles; career exploration; identifying part- and full-time job vacancies, internships and shadowing experiences; resume writing; interviewing preparation and practice; job search strategies; networking with potential employers; researching salary information; and preparing for a successful transition from campus to the community and beyond.

Career counselors encourage students to explore careers first-hand by taking part in the Shadowing and Mentoring Program. Shadowing gives students the opportunity to follow working professionals for all, or part, of a day to learn more about careers of interest. Obtaining a mentor provides students with the opportunities for developing on-going contacts with professionals in their fields of interest.

For a more in-depth experience, students may apply for internships, gaining experience and sometimes academic credit by working in businesses, agencies, or other settings pertinent to their academic majors or career goals. Positions are usually semester-based, beginning at the start of a semester and finishing at semester’s end; therefore, they should be arranged prior to the semester in which the student wants to begin. Internships are available year-round, during fall, spring and summer semesters. Full-time or part-time internships may be arranged in Lexington and central Kentucky, as well as other locations. Internships may be planned for academic credit, in compliance with individual employers’ specifications and faculty sponsorship. More than 35 percent of internships are paid positions.

The James W. Stuckert Career Center is also home to the Katherine Kemper Career Library, a 1,400 square-foot reference area which houses information in electronic and print formats to assist students in their career decisions and job searches. This library offers twelve computer work stations with Internet access as well as TV/VCR carrels for viewing.
Student Services and Activities

company and occupational information videotapes. For students and alumni seeking 24/7 career services from a distance, the Center offers password access to the Vault Online Career Library accessible from the Center’s Web site at: www.uky.edu/CareerCenter.

For students ready to begin seeking full-time, career-related employment, the James W. Stuckert Career Center offers numerous career fairs, employer information sessions and networking receptions throughout the year. Students registering with the Center’s Web-based service, CyberCAT, have access to thousands of job vacancies in addition to being able to apply for interviews with employers who come to campus to recruit UK graduates.

For more information, visit the Center’s Web site at: www.uky.edu/CareerCenter. Currently enrolled UK students and alumni may schedule an appointment by calling (859) 257-2746. Students may also utilize the Katherine Kemper Career Library, Monday through Friday, 8 A.M. to 5 P.M. Drop-in hours are available to discuss quick questions with career counselors every weekday from 3 P.M. to 5 P.M., year-round.

The Office of eUreKa!

The Office of eUreKa! (Experiences in Undergraduate Research and Creative Activities) is one of the units of the Center for Undergraduate Excellence. Our purpose is to bring together under one umbrella all of the many scholarly opportunities for undergraduates. We encourage and support undergraduate research (both scholarly and creative) in all disciplines. We strive to engage undergraduates to participate in activities that provide hands-on, mentored experiences with UK faculty. Below is a list of programs we offer. Each of these programs provides students with special opportunities and support that extends beyond the classroom. Visit our Web site at: www.uky.edu/EUREKA/.

- UK Undergraduate Research Program (UKURP)
- Society of the Promotion of Undergraduate Research (SPUR), an undergraduate research club
- The NSF funded AMSTEMM Program that recruits, retains, and graduates Appalachian and Minority students majoring in science technology engineering and mathematics disciplines
- DSP 200, Research Skills Orientation Course
- The Annual Showcase for Undergraduate Scholars
- “Bucks for Brains” summer research mentorship
- Kaleidoscope (UK’s Journal of Undergraduate Scholarship) Publication
- The Oswald Research and Creativity Awards Program and competition
- The Summer Research and Creativity Awards Program
- The Undergraduate Research Support and Travel Fund
- The Beckman Scholars Program
- The “Posters-at-the-Capitol” Program
- Support for National Conference on Undergraduate Research attendees

For more information, contact the eUreKa Office at (859) 257-6420.

Adult Student Services

Adult Student Services is a centralized resource center assisting individuals starting or returning to college after several years and current adult students enrolled at the University of Kentucky.

The Center offers programs, scholarships, workshops, advocacy and support to adults. “Back to School” workshops are held two times a year for adults considering a return to school or starting school for the first time. Six scholarships, awarding over $30,000 annually, are available to UK nontraditional-aged students and students enrolling nontraditionally. Resources, referral and limited academic advising are available with hours that extend into the evenings and on the weekend, Monday through Thursday, 9 A.M. to 7 P.M.; Friday, 9 A.M. to 6 P.M.; and Saturday by appointment.

Contact the center for more information or with questions, comments, or concerns.

Adult Student Services
13A Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054
(859) 257-3802
Toll-Free: 1-800-432-0963 option 4
Fax: (859) 257-9594
e-mail: cmckinn@uky.edu
www.uky.edu/AdultSS/

TRANSCRIPT SERVICES

Students may purchase official copies of transcripts of their academic record in the Office of Student Records.

The current charge for transcripts is $5.00 per copy for all UK students (two working days are required to process transcripts). Immediate processing service is available at $8.00 per copy.

Students may view their transcript at no charge. Students must present proper identification, including a photo ID.

No transcript will be released without the proper written authorization from the student.

No transcript will be released if:
- no payment is received;
- the student has been declared financially delinquent to the University of Kentucky; or
- the student does not present the proper identification (see section on Notification of Rights Under FERPA for Postsecondary Institutions on page 2 of this Bulletin.)

The Office of Student Records is located in the Registrar’s Office and is open Monday through Friday, 8 A.M. to 4:30 P.M. You may request transcripts in person, by mail or by fax. Transcript request forms are available online at: www.uky.edu/Registrar/Transcripts.htm. The form may be completed online but must be printed off and mailed or faxed to the address/phone below. E-mail requests for transcripts cannot be used as the office must have the student’s signature. Send transcript requests to:

University of Kentucky Registrar
10 Funkhouser Building
Attention: Transcripts
Lexington, KY 40506-0054
(859) 257-8729
Fax: (859) 257-7160
# GUIDE TO UNIVERSITY OFFICES

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<td><strong>Accident</strong></td>
<td>University Police</td>
<td>145 Seaton Center</td>
<td>257-2898</td>
</tr>
<tr>
<td>Auto (on campus)</td>
<td>Metro Police</td>
<td>Memorial Coliseum</td>
<td>257-1916</td>
</tr>
<tr>
<td>Auto (off-campus)</td>
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<td>B-163 Kentucky Clinic</td>
<td>323-5823</td>
</tr>
<tr>
<td>Injury</td>
<td>Director of Financial Aid</td>
<td>128 Funkhouser Bldg.</td>
<td>257-3172 ext. 242</td>
</tr>
<tr>
<td>Emergency (on campus)</td>
<td>University Medical Center</td>
<td>B-163 Kentucky Clinic</td>
<td>323-5823</td>
</tr>
<tr>
<td>(off-campus)</td>
<td>Student Health Service</td>
<td>305 Euclid Ave.</td>
<td>323-5511</td>
</tr>
<tr>
<td><strong>Activities, Student</strong></td>
<td>Athletic Student Services Office</td>
<td>34A Memorial Coliseum</td>
<td>257-9648</td>
</tr>
<tr>
<td>Programming bodies</td>
<td>Student Activities Office</td>
<td>203 Student Center</td>
<td>257-8867</td>
</tr>
<tr>
<td>Activities available</td>
<td>Student Government</td>
<td>120 Student Center</td>
<td>257-3191</td>
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<tr>
<td><strong>Athletics</strong></td>
<td>Student Organizations Office</td>
<td>106 Student Center</td>
<td>257-1099</td>
</tr>
<tr>
<td>Intramural and Extramural</td>
<td>Director, Campus Recreation</td>
<td>145 Seaton Center</td>
<td>257-2898</td>
</tr>
<tr>
<td>Varsity – Men</td>
<td>Director of Financial Aid</td>
<td>Memorial Coliseum</td>
<td>257-3754</td>
</tr>
<tr>
<td>Varsity – Women</td>
<td>Dean of Students Office</td>
<td>513 POT</td>
<td>257-3754</td>
</tr>
<tr>
<td>Tickets</td>
<td>Student Health Service</td>
<td>B-163 Kentucky Clinic</td>
<td>323-5823</td>
</tr>
<tr>
<td>Student</td>
<td>Counseling &amp; Testing Center</td>
<td>301 Frazee Hall</td>
<td>257-7801</td>
</tr>
<tr>
<td>Other</td>
<td>Dean of Students Office</td>
<td>513 POT</td>
<td>257-3754</td>
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<tr>
<td><strong>Attendance</strong></td>
<td>Student Mental Health Services</td>
<td>B-163 Kentucky Clinic</td>
<td>323-5511</td>
</tr>
<tr>
<td>(see Absences)</td>
<td>Career Center</td>
<td>301 Frazee Hall</td>
<td>257-8701</td>
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<tr>
<td><strong>Automobile</strong></td>
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<td>301 Frazee Hall</td>
<td>257-7801</td>
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<tr>
<td>(see Traffic)</td>
<td>Dean of Students Office</td>
<td>513 POT</td>
<td>257-3754</td>
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<tr>
<td><strong>Campus Recreation</strong></td>
<td>Student Mental Health Services</td>
<td>B-163 Kentucky Clinic</td>
<td>323-5511</td>
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<td>Medical Center</td>
<td>Counseling &amp; Testing Center</td>
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<td>Student Mental Health Services</td>
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<td>Activities</td>
<td>Career Center</td>
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<td>257-3754</td>
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<td>323-5511</td>
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<td>Women</td>
<td>Career Center</td>
<td>301 Frazee Hall</td>
<td>257-8701</td>
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<td><strong>Disabled, Services for</strong></td>
<td>Central Advising</td>
<td>109 Miller Hall</td>
<td>257-3383</td>
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<tr>
<td>Dormitories</td>
<td>Disability Resource Center</td>
<td>2 Alumni Gym</td>
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<td><strong>Drug Information</strong></td>
<td><strong>Employment</strong></td>
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<tr>
<td><strong>Drug Information</strong></td>
<td>Student Health Service</td>
<td>B-163 Kentucky Clinic</td>
<td>323-5823</td>
</tr>
<tr>
<td>Student (part-time)</td>
<td>Counseling &amp; Testing Center</td>
<td>301 Frazee Hall</td>
<td>257-7801</td>
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<td>Teacher Placement</td>
<td>Alcohol &amp; Health Education Office</td>
<td>242 Johnson Center</td>
<td>257-9687</td>
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<tr>
<td>Work-Study</td>
<td><strong>Emergency Treatment</strong></td>
<td>University Medical Center</td>
<td>323-5001</td>
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<td>Career Placement</td>
<td>Student Health Service</td>
<td>B-163 Kentucky Clinic</td>
<td>323-5823</td>
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<tr>
<td>Student (part-time)</td>
<td>Counseling &amp; Testing Center</td>
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<td>257-7801</td>
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<td>Career Center</td>
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<td>Student Employment</td>
<td>104 Scovell Hall</td>
<td>257-9555 ext. 120</td>
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<tr>
<td>College of Education</td>
<td>104 Taylor Education Bldg.</td>
<td>257-1857</td>
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<td>Student Financial Aid</td>
<td>128 Funkhouser Bldg.</td>
<td>257-3172 ext. 247</td>
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<td>Facilities (use and reservation)</td>
<td>Registrar’s Office</td>
<td>12 Funkhouser Bldg. 257-4903</td>
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<tr>
<td>Adena Park</td>
<td>Campus Recreation</td>
<td>145 Seaton Center 257-2898</td>
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<tr>
<td>Agriculture Science Auditorium (Seay Auditorium)</td>
<td>Management Operations</td>
<td>N-3 Ag. Science N. Bldg. 257-2983</td>
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<td>Agriculture Sci. South Aud. – B52</td>
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<td>12 Funkhouser Bldg. 257-4903</td>
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<td>Alumni House</td>
<td>Alumni Association</td>
<td>King Alumni House (400 Rose St.) 257-8905</td>
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<td>Alumni Gym</td>
<td>Campus Recreation</td>
<td>Campus Recreation 257-3928</td>
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<td>Carnahan House (restricted)</td>
<td>Carnahan Conference Center</td>
<td>1701 Newtown Pike 254-1060</td>
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<tr>
<td>Haggin Field</td>
<td>Residence Life</td>
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<td>Medical Center Auditorium</td>
<td>Hospital Adm.</td>
<td>N100 Medical Center 323-5211</td>
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<td>Memorial Coliseum</td>
<td>Athletics Association</td>
<td>200 Memorial Coliseum 257-3838</td>
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<td>Student Center – Director’s Office</td>
<td>209 Student Center 257-5781</td>
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<td>Parking lots and structures</td>
<td>Parking Services</td>
<td>305 Euclid Ave. 257-5757</td>
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<td>Patterson Office Tower (18th Floor - restricted)</td>
<td>Vice President for Fiscal Affairs</td>
<td>110 Administration Bldg. 257-8200</td>
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<td>Seaton Center</td>
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<td>Singletary Center for the Arts</td>
<td>Coordinator</td>
<td>126 Center for the Arts 257-1706</td>
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<td>Student Billing Services</td>
<td>18 Funkhouser Bldg. 257-3406</td>
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<td>Financial Aid</td>
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<td>127 Funkhouser Bldg. 257-3172 ext. 223</td>
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<td>Fraternities</td>
<td>Fraternity Advisor</td>
<td>575 POT 257-3151</td>
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<td>General Information and Assistance</td>
<td>Dean of Students Office</td>
<td>513 POT 257-3754</td>
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<td>Graduation Ceremonies</td>
<td>Human Resources</td>
<td>115 Scovell Hall 257-9519 ext. 176</td>
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<tr>
<td>Information</td>
<td>Student Health Service</td>
<td>B-163 Kentucky Clinic 323-5823</td>
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<tr>
<td>Housing</td>
<td>Housing Office</td>
<td>125 Funkhouser Bldg. 257-1866</td>
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<td>Graduate and Family</td>
<td>Auxiliary Services</td>
<td>Cooperstown C Bldg. 257-3721</td>
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<td>Greg Page Stadium View Apts.</td>
<td>Housing Office</td>
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<td>Residence Life</td>
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<td>Resident Advisors</td>
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<td>Identification Cards</td>
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<td>Insurance</td>
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<td>Johnson Center</td>
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<td>Student Financial Aid</td>
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<td>Student Activities Office</td>
<td>203 Student Center 257-8867</td>
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<td>Meal Cards</td>
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<td>Contracts</td>
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<td>18 Funkhouser Bldg. 257-3406</td>
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<td>Student Health Services</td>
<td>Kentucky Clinic Bldg. 323-5823</td>
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<td>General Information and main telephone number</td>
<td>Student Health Services</td>
<td>B-163 Kentucky Clinic 323-2778</td>
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<td>Illness or accident</td>
<td>Student Health Services</td>
<td>B-163 Kentucky Clinic 323-5823 ext. 281</td>
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<td>Drug information</td>
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<td>B-163 Kentucky Clinic 323-5511</td>
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<td>Personal Counseling</td>
<td>Student Health Services</td>
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<td>Multicultural and Academic Affairs</td>
<td>Associate Provost for Multicultural/Academic Affairs</td>
<td>563 POT 257-1991</td>
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<td>Associate Provost</td>
<td>African-American Student Affairs</td>
<td>557 POT 257-5641</td>
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<td>Learning Services</td>
<td>Learning Services Center</td>
<td>660 S. Limestone St. 323-6347</td>
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<td>Student Support Services</td>
<td>Student Support Services Office</td>
<td>103B Alumni Gym 257-9797</td>
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### Organizations and Clubs

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<tr>
<th>Service</th>
<th>Office/Office</th>
<th>Location</th>
<th>Phone</th>
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<tr>
<td>Student Organizations</td>
<td>Student Organizations</td>
<td>106 Student Center</td>
<td>257-1099</td>
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### Orientation

- Advising/Conferences: Registrar’s Office 13A Funkhouser Bldg. 257-3256
- K Week (Fall Welcome): Dean of Students Office 518 POT 257-6597

### Postal Service

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>University Post Office</td>
<td>Basement, Classroom Bldg.</td>
<td>257-6358</td>
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### Publications

- Kernel: Kernel Office 026 Grehan Journalism Bldg. 257-2871
- Kentuckian: Kentuckian Office 026 Grehan Journalism Bldg. 257-4005
- Student Code: Dean of Students Office 513 POT 257-3754

### Religion

<table>
<thead>
<tr>
<th>Service</th>
<th>Office/Office</th>
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<td>Student religious organizations</td>
<td>University liaison</td>
<td>2 Alumni Gym</td>
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### Residence Halls

(see Housing)

### Scholarships

- **Academic:** Office of Academic Scholarships 211 Funkhouser Bldg. 257-4198
- **Financial Aid:** Student Financial Aid 127 Funkhouser Bldg. 257-3172
- **Minority:** Multicultural and Academic Affairs 563 POT 323-6334
- **Departmental:** Dean of College

### Social Functions

(see Activities)

### Sororities

<table>
<thead>
<tr>
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<th>Office/Office</th>
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</thead>
<tbody>
<tr>
<td>Sorority Advisor</td>
<td>Student Government Office</td>
<td>120 Student Center</td>
<td>257-3191</td>
</tr>
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### Study Skills

- **Counseling & Testing Center:**
  - UK 101: 301 Frazee Hall 257-8701
  - Learning Skills: Counseling & Testing Center 204 Frazee Hall 257-6959
  - Student Support Services: Student Support Services Office 103B Alumni Gym 257-9797

### Testing

- **Counseling & Testing Center:**
  - Aptitude: 301 Frazee Hall 257-8701
  - Personality: 301 Frazee Hall 257-8701
  - Vocational: 301 Frazee Hall 257-8701
  - University Testing Program: Counseling & Testing Center 201 Frazee Hall 257-8703

### Tickets

- **TicketOffice:** 111 Memorial Coliseum 257-1818
- **Athletic-Student Services Office:** 34A Memorial Coliseum 257-9648
- **TicketOffice:** 253 Student Center 257-8427
- **Lexington Philharmonic:** TicketOffice 253 Student Center 257-8427
- **Student Center:** TicketOffice 253 Student Center 257-8427
- **Theatre:** Guignol/Briggs/Workshop 106 Singletary Center 257-4929

### Traffic

- **University Police:**
  - University Police 305 Euclid Ave. 257-1616
  - Parking 305 Euclid Ave. 257-1616
- **Parking:**
  - Parking 305 Euclid Ave. 257-5757
- **Emergency:**
  - University Police 305 Euclid Ave. 911
  - Metro Police 150 E. Main St. 911

### Tutoring

- **Student Support Services Office:**
  - Counseling & Testing Center 301 Frazee Hall 257-8701
  - Student Government Association 120 Student Center 257-3191
  - Learning Services Center 660 S. Limestone St. 323-6347
  - Student Support Services 103B Alumni Gym 257-9797

### Withdrawal

- **Registrar:**
  - University, courses 301 Frazee Hall 257-8701
  - Dean of College 10 Funkhouser Bldg. 257-7157
ACADEMIC ADVISING

Academic advising is an integral part of undergraduate education at the University of Kentucky. The goal of all academic advising is to assist students in taking responsibility for developing meaningful educational plans compatible with their potential and their career and life goals. Advising is more than the imparting of specialized information; it includes helping students formulate important questions about the nature and direction of their education and helping them find answers to those questions. Advisors will confer with students about course schedules and educational experiences, but students themselves are responsible for their academic program and for making progress toward an academic degree.

As students progress through their academic programs, their advising needs change. At the University of Kentucky, academic advisors help students meet these changing needs. Faculty advisors are key to understanding the nature of the academic program and how it can address student interests and goals. Professional advisors maintain up-to-date information on university requirements, academic policies, procedures, and deadlines; they can also provide guidance for the exploring student.

Support offices such as the Central Advising Service, Counseling and Testing, Student Support Services, the Career Center, and Multicultural Affairs can help students refine their academic interests and goals. Students should refer to specific college, school, and departmental advising materials for details on specific advising programs.

Some students have not selected a specific major. The majority of these students enter the university in Undergraduate Studies and are advised by Central Advising Service until they declare a major.

Academic Advising Mission Statement

The mission of academic advisors, both faculty and professional, is to:

- assist students in taking responsibility for developing meaningful education plans compatible with their potential and their career and life goals;
- help students formulate important questions about the nature and direction of their education and assist them in finding answers to those questions;
- assist students in acquiring accurate and timely information regarding academic policies, procedures, and requirements;
- facilitate the successful transition of prospective, continuing and nontraditional students to the academic and campus environment.

Central Advising Service

Undergraduate Studies is housed in the Central Advising Service, which provides academic advising to undergraduate students in order to facilitate their academic success. The staff of professional advisors works with students in Undergraduate Studies who are in the process of choosing a major and also provides pre-professional advising to students interested in pre-law, pre-med, pre-optometry, pre-dental, and other health professions. Continuing students, non-traditional students, transfer students, and other students in academic transition are encouraged to use this resource during their transition period.

Advisors in Central Advising work individually with students to help them clarify their professional goals, realistically assess their capabilities and limitations, explore majors of interest, and choose courses appropriate to those areas of study. Advisors also make referrals to other student support services on campus for career interest testing, personal counseling, help with study skills, tutoring, etc. The aim is to support students in making informed decisions about careers and choice of major, and to facilitate the process of entering that major. Visit the Central Advising Service online at: www.uky.edu/UGS/centadv/.

Departmental Advising

Students who have declared a major are advised by someone in that department, either a faculty member or a professional advisor. These advisors, with their in-depth knowledge of a particular field, can provide guidance toward completing degree requirements as well as information regarding careers and/or long-term educational goals. It is important for the student, as soon as he/she declares a major, to contact the department office and request assignment to an advisor.

Pre-Professional Advising

PRE-LAW STUDY – There is no specified undergraduate degree program required for entry into law school. Students are advised to obtain the bulletins of law schools in which they are interested and to familiarize themselves with admissions standards at those schools. In general, pre-law students should develop rigorous study habits, become skilled in clear and logical communication, and select courses toward a

Within the advising system at the University of Kentucky, both students and advisors have responsibilities.

**Students are responsible for:**

a. knowing the requirements of their particular academic program; selecting courses that meet those requirements in an appropriate time frame; and monitoring their progress toward graduation;

b. consulting with appropriate advisors designated to handle the kind of questions or concerns they have;

c. scheduling and keeping academic advising appointments in a timely manner throughout their academic career, so as to avoid seeking advising only during busy registration periods; and

d. being prepared for advising sessions.

**Advisors are responsible for:**

a. helping students clarify their options, goals and potential, and understand themselves better;

b. helping students understand the nature and purpose of a college education;

c. providing accurate information about educational options, requirements, policies and procedures; and

d. helping students plan educational programs and monitor and evaluate their educational progress.
broad general education. Students considering the study of law can contact a pre-law advisor in the Central Advising Service, 109 Miller Hall, (859) 257-3383. For more information, visit Central Advising online at: www.uky.edu/UGS/centadv/. Almost all law schools require students to take the Law School Admission Test (LSAT). Students can contact the Central Advising Service and the Dean’s Office in the College of Law for information concerning the test.

PRE-MEDICAL STUDY — The University of Kentucky offers preparatory work for the study of medicine in compliance with the minimum entrance requirements of the American Medical Association and the Association of American Medical Colleges. The minimum requirements for entrance to medical schools and in preparation for taking the Medical College Admissions Test (MCAT) include:

- 2 semesters of English with an emphasis in communication skills
- 2 semesters of biology with labs (BIO 150, BIO 151, BIO 152, BIO 153)
- 2 semesters of general chemistry with lab (CHE 105, CHE 107, CHE 111, CHE 113)
- 2 semesters of organic chemistry with labs (CHE 230, CHE 231, CHE 232, CHE 233)
- 2 semesters of physics with labs (PHY 211 and PHY 213) or (PHY 231, PHY 241, PHY 232, PHY 242)

Students who complete a four-year course of study and thereby obtain a degree will have time to meet the requirements for entrance to all medical schools. Opportunity is thus afforded for a broader background in the natural sciences, social sciences, and humanities, which will be of advantage both in medical school and in later life. Students may choose any major the University offers, provided the minimum requirements listed above are met.

The number of students applying annually for admission to medical colleges exceeds the number that can be admitted. Boards of admission consequently fill their quotas from those who are best prepared, as indicated by grade-point averages, MCAT scores, and other criteria. There is no pre-medical major at UK. Students who are interested in pre-medical study should contact a pre-medical advisor in Central Advising Service, 109 Miller Hall, (859) 257-3383.

PRE-DENTAL STUDY — In 1970 the American Dental Association abolished its traditional prerequisites for admission to dental school and left it to each school to establish those prerequisites which it deems necessary. The following courses are required to enter dental school in the state of Kentucky:

- *2 semesters of biology with labs (BIO 150, BIO 151, BIO 152, BIO 153)
- 2 semesters of general chemistry with lab (CHE 105, CHE 107, CHE 111, CHE 113)
- 2 semesters of organic chemistry with labs (CHE 230, CHE 231, CHE 232, CHE 233)
- 1 semester of physics with lab (PHY 211) or (PHY 231, PHY 241)
- 2 semesters of English with an emphasis in communication skills

*The University of Louisville Dental School has additional biology requirements.

In addition, students are encouraged to take upper division courses in areas such as cell biology, microbiology, immunology, histology, biochemistry, genetics and/or comparative anatomy. Students should have a well-rounded curriculum.

Other dental schools in the country may have different required prerequisite courses. Specific information should be requested from each dental school in which the student has an interest.

Students who are interested in pre-dental study should contact a pre-dental advisor in Central Advising Service, 109 Miller Hall, (859) 257-3383, for further information and guidance.
PRE-OPTOMETRY STUDY — By means of contract through the Southern Regional Education Board, the Commonwealth of Kentucky will pay to the University of Indiana, the University of Alabama, or Southern College of Optometry the nonresidential differential for each academic year for qualifying students who demonstrate approved progress in the four-year curriculum that leads to the Doctor of Optometry degree. To be eligible for this financial assistance, a student must be a legal resident of the Commonwealth of Kentucky as defined by the Council on Higher Education and must be admitted to one of the above-mentioned colleges of optometry.

Although the Commonwealth of Kentucky does not have an optometry school, contract seats are available to legal Kentucky residents at the University of Alabama, Indiana University, and Southern College of Optometry through the Southern Regional Education Board (SREB). Students accepted for the SREB contract program are exempt from the out-of-state tuition. Students are competitively selected from the optometry school to receive a contract seat. Contract availability is subject to change as state legislatures annually review budget expenditures. For the number of contract seats available and more information, contact the specific optometry school.

Pre-optometry requirements differ, but generally include:

- 2 semesters of college algebra and 1 semester of elementary calculus (MA 123 or MA 109 and MA 123)
- 1 semester of mathematics (Calculus I)
- 2 semesters of principles of microeconomics (ECO 201)
- 2 semesters of algebra-based physics (PHY 211 and PHY 213)
- 1 semester of human anatomy (ANA 209)
- 2 semesters of general chemistry (with laboratory) including qualitative analysis (CHE 105, CHE 111, CHE 107, CHE 113)
- 2 semesters of organic chemistry (with laboratory) (CHE 230, CHE 231, CHE 232, CHE 233)
- 1 semester of statistics (STA 291)
- Sufficient electives to raise the total hours of credit to at least 70 hours

Pre-pharmacy courses should be completed by the end of the spring semester prior to the desired fall enrollment, with one semester completed in a lecture and lab in organic chemistry, physics and either anatomy or microbiology by the end of the fall semester prior to the application deadline.

Students are encouraged to take elective courses that satisfy the UK University Studies Program requirements. Practical elective courses to consider include general psychology, interpersonal communications, basic public speaking and medical terminology.

Admission to the college is competitive, based on grade-point average, PCAT scores, and an interview. To be eligible to apply, applicants must submit a PCAT score taken in the year prior to expected fall entrance or before (up to 5 years prior).

For more information, contact the College of Pharmacy at:

Academic Affairs
College of Pharmacy
University of Kentucky
Lexington, KY 40536-0082
(859) 323-6163
www.mc.uky.edu/Pharmacy/acaffairs

PRE-PODIATRIC MEDICINE — The American Association of Podiatric Medicine (AAPM) represents six of the seven U.S. Colleges of Podiatric Medicine and Surgery (Barry University School of Graduate Medical Sciences, California School of Podiatric Medicine, College of Podiatric Medicine and Surgery at Des Moines University, Ohio College of Podiatric Medicine, Scholl College of Podiatric Medicine, and Temple University School of Podiatric Medicine). Admissions requirements include a minimum of three years (90 semester hours) of college course work. However, a baccalaureate degree is strongly recommended. The pre-podiatric medicine course work must include:

- 2 semesters of biology with lab (BIO 150, BIO 151, BIO 152, BIO 153)
- 2 semesters of general chemistry with labs (CHE 105, CHE 111, CHE 113)
- 2 semesters of physics with labs (PHY 211, PHY 213) or (PHY 231, PHY 241, PHY 232, PHY 242)
- 2 semesters of English
- 2 semesters of organic chemistry with labs (CHE 230, CHE 231, CHE 232, CHE 233)
- 1 semester of statistics (STA 291)
- 1 semester of human anatomy (ANA 209)
- Sufficient electives to raise the total hours of credit to at least 70 hours

Science courses taken should be those designed for pre-professional students. Brief survey courses in the sciences will not prepare students for optometry school.

Additional course requirements vary among schools. All students interested in optometry should obtain college catalogs from the institutions they are considering. Students who are interested in pre-optometry study should contact a pre-optometry advisor in Central Advising Service, 109 Miller Hall, (859) 257-3383.
Special Academic Programs

THE ACADEMIC COMMON MARKET

The Academic Common Market allows out-of-state students to pay in-state tuition while studying selected academic programs that are not available in their home states. The list of programs included in the Academic Common Market is revised periodically to reflect the changing needs and offerings of participating states. The 16 states that participate in the Academic Common Market are Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia. For more information, contact the Academic Common Market Institutional Coordinator, 100 Funkhouser Building, University of Kentucky, Lexington, KY 40506-0054, (859) 257-3256.

ACCELERATED PROGRAMS

The University of Kentucky has a broad policy for accelerated programs. Among the opportunities available are special programs for high school students and a variety of credit-by-examination programs. Many students use these opportunities to earn degrees in less time. Others prefer to use the time gained to explore areas outside their majors or to do more work in their major fields.

Accelerated Programs for High School Students

High school students interested in earning college credit while still in high school should inquire about admission before graduating from high school. The High School Exceptional Ability program is described in greater detail in the Undergraduate Admission section of this Bulletin. Students may also begin their college careers while still in high school by enrolling in independent study courses. The Independent Study Program is described in greater detail in the Additional Learning Opportunities section of this Bulletin.

Credit-by-Examination Programs

UK students may earn degree credit by successfully completing examinations described below.

Proficiency Examination Program (PEP)

The Proficiency Examination Program (PEP) of The American College Testing Program prepares tests in arts and sciences, business, criminal justice, education, and nursing. PEP tests may be recognized as appropriate credit for meeting degree requirements. Working with the Office of Undergraduate Admission, colleges and departments determine appropriate cutoff scores, as applicable. The academic departments also determine the amount of the awarded credit that will apply to the curricular requirements in each academic major.

Lower division credit in nursing may be awarded to students who are already registered nurses and who earn scores of 45 or higher on the following PEP tests: Fundamentals of Nursing (403); Maternal and Child Nursing, Associate Degree (453); Adult Nursing (554); Psychiatric/Mental Health Nursing (503).

For more information on PEP tests, contact the Counseling & Testing Center at (859) 257-8701.

Advanced Placement Program (AP)

The University of Kentucky recognizes examinations of the College Board Advanced Placement Program offered by high schools throughout the nation. Currently, UK ranks among the top 100 schools in the U.S. for receipt of AP test score results. A high school senior who wishes to have AP scores evaluated for academic credit or placement should have the results sent to the Office of Undergraduate Admission and University Registrar. UK’s code is 1837.

Students who receive Advanced Placement credit for a course may apply this credit the same way earned by passing a course is applied. UK does not recognize College Board SAT II Subject Tests for placement or credit purposes.

Academic departments have designated the current policy (see chart on pages 58-59) for students who score 3 or higher on the Advanced Placement examinations.

Please note that the University of Kentucky awards Advanced Placement credit based on the score of the exam that is in effect during the academic year that the student enrolls in UK. Students should refer to the AP chart in the Bulletin they received when they were admitted for the appropriate score.

UK does not award duplicate credit in the event that a student repeats an exam or if the credit award is the same for two or more exams. In the event a student takes the same exam more than once, credit is awarded for the best score only.

For more information on UK’s Advanced Placement policy, contact:

Office of Undergraduate Admission and University Registrar
100 W. D. Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054
(859) 257-2000

College Level Examination Program (CLEP)

UK participates in the national testing program of The College Board. CLEP Examinations cover specific material common to courses at many universities.

Credit for University courses is awarded to students who obtain the listed scores on the appropriate Examinations, as listed in the “Policy Guide for CLEP Examinations” on page 60.

The Registrar’s Office is responsible for all official posting of credit to a student’s record. For information regarding the CLEP program and posting of credit, call the Registrar’s Office at (859) 257-8729. For information on CLEP exams in general, visit the College Board Web site at: www.collegeboard.com/clep/.

International Baccalaureate Program (IB)

The University of Kentucky recognizes course credit earned through the International Baccalaureate (IB) Program offered by high schools throughout the world.

Generally, course credit is awarded for scores of 5, 6, or 7 on either the Standard Level exam or the Higher Level exam. Please refer to the chart on page 55 for the actual course credit policy in each subject.

Any student desiring credit must request an IB transcript to be sent to the University. Course credit awarded through the IB program will apply toward degree requirements just as if the course had been taken on campus, except that there will not be a specific letter grade associated with the course. Instead, a designation of CR – credit – will be awarded and the grade-point average will not be affected.

In some cases, as noted on the chart on page 55, additional curriculum information must be supplied by the student’s high school before credit will be awarded.

For more information, contact the College of Arts & Sciences Advising Center at (859) 257-8712.
Special Academic Programs

Special Departmental Examinations

Undergraduate students requesting a special examination must apply in writing to the chairperson of the department that offers the course. Graduate students should apply to the director of graduate studies in the department offering the course. Applicants should include evidence that they are reasonably prepared for the examination.

These examinations are prepared and administered by the offering department, and are usually equivalent to a final examination. Students must be enrolled in good standing at UK. The examinations are offered without charge.

Almost any course offered at the University is available for credit by special examination, regardless of whether a student has audited the course, is currently enrolled in it, or has studied it independently. Please note, most elementary and intermediate foreign language courses are not available on the basis of a special examination.

More information about special examination credit appears in the Academic Requirements section of this Bulletin.

English Examination: Students who have a standard score of 32 or above on the English section of the ACT Assessment or 700 or above on the SAT I Verbal score will receive exemption from ENG 104; students who have a standard score of 4-5 on the AP English Language exam will receive credit (grade of CR) for ENG 104. Students who earn a 3 on the AP English Language exam will earn credit for ENG 101 and may choose to take either ENG 102 or ENG 104 (recommended). There is no exemption by CLEP. Scores of 3-5 on the AP English Literature exam or the equivalent on the IB exam will continue to receive 3 units of credit for ENG 161, which does not satisfy either condition of the University Writing Requirement.

Program on Noncollegiate-Sponsored Instruction (PONSI)

Students, particularly those 25 years of age and older, may be eligible to receive credit for extra-institutional learning. The American Council on Education through its Program on Noncollegiate-Sponsored Instruction (PONSI) has evaluated over 2,000 courses sponsored by over 140 corporations, organizations, and agencies drawn from business, industry, and government. On the basis of PONSI evaluations, the University has established guidelines for awarding credit for college-level courses. The University recognizes these recommendations as appropriate credit for meeting degree requirements.

The University’s colleges and departments determine the amount of credit that will apply to a student’s curriculum.

Information on PONSI appears in The National Guide to Educational Credit for Training Programs. For more information, contact the Office of Undergraduate Admission.

Evaluation of Military Credit

The University of Kentucky does not automatically award military credit to students at the onset of enrollment. However, after a degree-seeking student has been enrolled at UK and earned 12 hours, he or she may request that the military record be sent to the Office of Admission for evaluation. Military Credit is awarded following the procedures below:

I. Procedures

A. The student must submit a letter requesting evaluation, along with the necessary supportive documentation, to the Office of Admission.

B. The letter should specify the types of educational experiences the student wishes to have evaluated.

1. Military Schools should be listed by:
   - Name of school
   - Location
   - Name of course
   - Length of course in weeks
   - Date course began
   - Date course completed
   - Final mark and/or standing in class
II. Documentation
A. Official documentation is necessary to support the awarding of any credit based on military service. The supportive documentation required is as follows:
1. Computerized transcript from the Army/American Council on Education Registry (request forms are available in the Office of Admission)
2. Copies of Course Completion Certificates
3. Enlisted Evaluation Data Report reflecting competency in any MOS submitted for evaluation
4. DD Form 214 (Report of Transfer or Discharge) if no longer on Active Duty

B. Required documentation may be obtained as follows:
1. Active Duty Personnel: Custodian of individual’s personnel records, Military installation to which assigned
2. Retired Army Personnel or Reserve Personnel: US Army Reserve Component & Administration Center (TAGO)
   9700 Page Boulevard
   St. Louis, Missouri 63132
3. Discharged Personnel (Veterans):
   General Services Administration National Personnel Records Center (Military Personnel Records)
   9700 Page Boulevard
   St. Louis, Missouri 63132
4. Discharged Personnel Now Members of Army National Guard:
   National Guard unit to which assigned

III. Awarding of Credit
Credit is evaluated using the ACE Guide for evaluation of military credit (Army, Navy, Air Force, Coast Guard). ACE guide recommends hours to be awarded based on the length and content of each course. Evaluations are typed on appropriate form.
A. A degree-seeking student must enroll and earn a minimum of 12 semester hours prior to any credit being awarded based on military service.
B. Credit will be awarded on the student’s official academic transcript.
C. No credit will be awarded based on a Military Occupational Specialty (MOS) which has not been held as a primary duty assignment for a minimum duration of one (1) year or more.
D. Copies of the Evaluation are forwarded to the college dean’s office and to Student Records Office.
E. One copy of the evaluation is maintained in the Office of Admission “Military Credit Evaluation” file.
F. Each college determines how awarded hours may be used in the degree program.

THE HONORS PROGRAM
The University of Kentucky Honors Program offers outstanding students, especially those interested in developing independent and critical thinking, a special community and a special identity within the framework of the larger institution. The Honors Program is an important part of the University’s commitment to academic excellence in undergraduate education.

The Honors Program awarding hours may be used in the degree program. The Honors Program enroll in the Honors Proseminars, which vary each semester and explore multidisciplinary topics. Upperclass students also complete an independent project of research or artistic expression in Honors or in their majors.

The Honors Program, its curriculum, and special features are described in detail in the Honors Program section of this Bulletin.

THE UNIVERSITY SCHOLARS PROGRAM
The University Scholars program offers students the opportunity and challenge of integrating their undergraduate and graduate or professional courses of study into a single, continuous program leading to both a baccalaureate and master’s degree. The student’s particular requirements will determine the amount of time needed to complete the program; however, the program can normally be completed in less time than that required in a conventional program.

Admission to the Program
Applicants for the University Scholars program must meet the following admissions requirements:
1. The applicant must have senior standing (completed at least 90 hours of course work) and have completed all University Studies requirements.
2. Students should apply at the end of their junior year.
3. The master’s program should be in the field of the undergraduate major.
4. Applicants must have an undergraduate grade-point average of 3.5 or above in their major field and 3.2 or above overall.
5. Follow the current application procedures for the Graduate School, subject to the above conditions. Admission decisions will be made by the Graduate Dean or his/her appointee.

Degree Requirements and Curriculum
Students in the University Scholars program must meet these requirements:
1. The total number of credit hours completed for the combined program may be twelve (12) fewer than the total required for both the bachelor’s and master’s degrees. (The requirements for the bachelor’s degree are unchanged.)
2. Students should take no more than 16 credit hours per semester, unless they have express permission from the appropriate director of graduate studies and the Dean of The Graduate School.
3. Students must complete at least 36 hours of graduate level courses in the combined program, 15 credit hours of which must be in the 600 level or above for a Plan B master’s degree. Students pursuing Plan A must complete at least 30 hours of graduate level courses in the combined program of which 12 credit hours must be at the 600 level or above. (Consult The Graduate School Bulletin for detailed information concerning Plan A and Plan B for master’s degrees.)
4. Students must have an undergraduate and a graduate advisor. A jointly planned program must be prepared for each student.

5. In order to participate in the University Scholars program, a department must submit to The Graduate School a plan and illustrative examples of typical programs.

DONOVAN SCHOLARS PROGRAM

The University of Kentucky has a long-standing interest in individuals of or nearing retirement age. In 1962, the Board of Trustees established the Council on Aging to serve as the focal point for programs for older persons. The Council is an integral part of the College of Public Health.

The Donovan Scholars Program sponsors a variety of educational programs for older adults. One of the most outstanding is the Herman L. Donovan Senior Citizens Fellowship program (described below).

Other programs include a biweekly lecture series on a variety of topics and classes in acting, art, computers, international affairs, languages, music, exercise, dance, readers theatre, and writing. Anyone over age 60 can participate in these noncredit courses and activities.

The Herman L. Donovan Senior Citizens Fellowship Program

The fellowship provides an opportunity for any person age 65 or over, if a resident of Kentucky, to enroll for regular courses without paying fees. The fellowship is available at the Lexington campus and at Bluegrass Community and Technical College. Donovan Scholars may take courses for credit or audit. All prerequisites and entrance requirements are waived for auditors. Donovan Scholars attend regular classes and participate in the many intellectual, social, and cultural programs which characterize the University.

For more information about the Donovan Fellowship, contact:

Donovan Scholars Program
Ligon House
University of Kentucky
Lexington, KY 40506-0442
(859) 257-2656

Additional Parameters

Additional student support will be provided (as appropriate) through existing campus resources: Center for Academic and Tutorial Service (CATS), Center for Academic Resources & and Enrichment Services, Central Advising Service and Transfer Center, The Study, and each academic college’s advising support and referral system.

All students with less than an 18 in English, reading, and math will be identified in SAP for tracking purposes and feedback to CPE.

SAT equivalencies also will be subject to the above policies.

All UK students converting from non-degree status to degree status who have not yet taken and successfully passed a college-level course in math or English or can provide ACT/SAT scores above the minimum stated requirements, are subject to specified policies.

The goal for these policies will be to provide support and appropriate preparation in English, reading, and math to insure student academic success at the University of Kentucky.
### University of Kentucky International Baccalaureate Program

**Credit Awarded Based on Standard Level (SL) or Higher Level (HL)**

**Exam Scores of 5, 6, and 7**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Level</th>
<th>Credit Awarded</th>
<th>Credit Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>SL</td>
<td>ANT 160, 220</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HL</td>
<td>ANT 220, 301</td>
<td>Credit may also be awarded for ANT 490 upon evaluation of appropriate fieldwork documentation</td>
</tr>
<tr>
<td>Biology</td>
<td>SL</td>
<td>BIO 102, 103</td>
<td></td>
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<tr>
<td></td>
<td>HL</td>
<td>BIO 150, 151, 152, 153</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>SL</td>
<td>CHE 104</td>
<td>Credit will also be awarded for CHE 106 if curriculum options A, C or H are completed; documentation from school is required</td>
</tr>
<tr>
<td></td>
<td>HL</td>
<td>CHE 105, 107</td>
<td>Students qualify to take CHE 111/113 laboratory bypass examination</td>
</tr>
<tr>
<td>English</td>
<td>SL/HL</td>
<td>ENG 161</td>
<td></td>
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<tr>
<td>French</td>
<td>SL</td>
<td>FR 203, 204 (Scores of 5 or 6)</td>
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<td></td>
<td></td>
<td>FR 304, 305 (Score of 7)</td>
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<tr>
<td></td>
<td>HL</td>
<td>FR 304, 305</td>
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<tr>
<td>Geography</td>
<td>SL</td>
<td>GEO 172 (Score of 5)</td>
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<td></td>
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<td>GEO 130, 172 (Scores of 6 or 7)</td>
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<tr>
<td></td>
<td>HL</td>
<td>GEO 130, 172</td>
<td></td>
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<tr>
<td>German</td>
<td>SL</td>
<td>GER 201, 202</td>
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<tr>
<td></td>
<td>HL</td>
<td>GER 205, 206, 307, 308</td>
<td></td>
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<tr>
<td>History</td>
<td>SL</td>
<td>HIS 108, 109</td>
<td></td>
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<tr>
<td></td>
<td>HL</td>
<td>HIS 104, 105, 108, 109</td>
<td>Note: For history majors, the premajor requirement is met with either SL or HL</td>
</tr>
<tr>
<td>Mathematics</td>
<td>SL Math Studies</td>
<td>MA 123</td>
<td></td>
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<tr>
<td></td>
<td>SL Mathematics</td>
<td>MA 110</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HL Mathematics</td>
<td>MA 113</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SL Further Mathematics</td>
<td>MA 114</td>
<td></td>
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<tr>
<td>Physics</td>
<td>SL/HL</td>
<td>PHY 211, 213</td>
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<tr>
<td>Psychology</td>
<td>SL</td>
<td>PSY 11–</td>
<td></td>
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<tr>
<td></td>
<td>HL</td>
<td>PSY 100</td>
<td></td>
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<tr>
<td>Spanish</td>
<td>SL</td>
<td>SPA 210, 211</td>
<td></td>
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<tr>
<td></td>
<td>HL</td>
<td>SPA 312, 314</td>
<td></td>
</tr>
<tr>
<td>Visual Arts</td>
<td>SL/HL</td>
<td>A-S 102 (Score of 5 or above)</td>
<td></td>
</tr>
</tbody>
</table>
### UNIVERSITY WRITING REQUIREMENT

All students must fulfill the University Writing Requirement. See “University Writing Requirement” on page 72 in the Graduation Requirements section of this Bulletin for more information. **Note:** Honors Program students satisfy both portions of the Writing Requirement through the Honors curriculum.

<table>
<thead>
<tr>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>You have scored <strong>32 or above</strong> on ACT English or <strong>700 or above</strong> on SAT I Critical Reasoning</td>
<td>Exempt from the first-year writing requirement Must enroll in 200+-level course after achieving sophomore status</td>
</tr>
<tr>
<td>You have scored <strong>4 or 5</strong> on AP English Language Exam</td>
<td>4 credits awarded for ENG 104 with a grade of “CR” Must enroll in 200+-level course after achieving sophomore status</td>
</tr>
<tr>
<td>You have scored <strong>3</strong> on the AP English Language Exam</td>
<td>3 credits awarded for ENG 101 with a grade of “CR” Must enroll in 200+-level course after achieving sophomore status</td>
</tr>
<tr>
<td>You have scored <strong>3, 4, or 5</strong> on the AP English Literature Exam or scored <strong>5, 6, or 7</strong> on the SL or HL IB Exam</td>
<td>3 credits awarded for ENG 161 with a grade of “CR” Must enroll in ENG 104 Must enroll in 200+-level course after achieving sophomore status</td>
</tr>
<tr>
<td>You have taken the CLEP Composition exam</td>
<td>No credit awarded Must enroll into ENG 104 Must enroll in 200+-level course after achieving sophomore status</td>
</tr>
<tr>
<td>You have taken ENG 101 and <strong>102</strong> (or equivalent)</td>
<td>First-year writing requirement satisfied Must enroll in 200+-level course after achieving sophomore status</td>
</tr>
<tr>
<td>You have taken a 3-unit first-year writing course</td>
<td>May enroll in ENG 102 or ENG 104 (recommended) Must enroll in 200+-level course after achieving sophomore status</td>
</tr>
<tr>
<td>You are a transfer student who has completed ENG 101 and <strong>102</strong> (or equivalent), and have 3 or more hours of credit for a 200+-level English literature course</td>
<td>First-year writing requirement satisfied Contact Janet Carey Eldred, Writing Initiative, 152 Bowman Hall, (859) 257-4831</td>
</tr>
<tr>
<td>You are a transfer student who has taken a 200-level writing-intensive course</td>
<td>Contact Janet Carey Eldred, Writing Initiative, 152 Bowman Hall, (859) 257-4831</td>
</tr>
</tbody>
</table>

**For More Information**

First-Year Requirement Questions: (859) 257-7002.

### FOREIGN LANGUAGE

You must complete two years of a foreign language in secondary school (as indicated on your official transcripts) or a two-semester sequence in college in the same language to satisfy the University Studies Program requirement in foreign language. Students who have had only high school French, German, or Spanish and plan to continue in the same language must take a Foreign Language Placement Exam.

Some degree programs at UK only require the completion of two years of a foreign language in a secondary school, while others (e.g., Arts and Sciences and Communications and Information Studies) have additional foreign language requirements beyond the two-semester sequence required by the University Studies Program. Please ask your advisor about your college and major requirements.

<table>
<thead>
<tr>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>You have had <strong>one year or more</strong> of French, German, Japanese, Latin, Russian, or Spanish in high school and plan to take additional courses in this language at UK</td>
<td>Language placement exam required Enroll in appropriate course determined by placement exam</td>
</tr>
<tr>
<td>You have did not take any foreign language in high school</td>
<td>Enroll in first-semester language course (no language placement exam required)</td>
</tr>
<tr>
<td>You are planning to enroll in a new language at UK</td>
<td>Enroll in first-semester language course (no language placement exam required)</td>
</tr>
</tbody>
</table>
Placement Information for Mathematics, Chemistry and Biology Courses

These prerequisites are in effect and will be applied to all students. Students should see their advisor before enrolling in any courses. A math placement test is required for all students scoring below an ACT 26 math or an SAT 600 math.

**MATHEMATICS**

You may satisfy the USP I Math requirement with one of the following: a score of 26 on the mathematics section of the ACT (or a 600 SAT math score); a bypass examination; MA 109 College Algebra; MA 110 Analytic Geometry and Trigonometry; MA 111 Introduction to Contemporary Mathematics; or any calculus course. The chart below will help determine the math course for which you are eligible.

If your ACT Math Score is:

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Math Placement Test Required</th>
<th>Eligible Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than or equal to 18 (Math SAT: less than or equal to 440)</td>
<td>Math placement required</td>
<td>Enrollment permitted in MA 108R</td>
</tr>
<tr>
<td></td>
<td>and Appropriate score on math placement test</td>
<td>Enrollment permitted in MA 109 or MA 111</td>
</tr>
<tr>
<td>19 - 25 (Math SAT: 460-580)</td>
<td>Math placement required</td>
<td>Enrollment permitted in MA 109 or MA 111</td>
</tr>
<tr>
<td></td>
<td>and Appropriate score on math placement test</td>
<td>Enrollment permitted in MA 123, MA 113, MA 110</td>
</tr>
<tr>
<td>23 - 25 (Math SAT: 540-580)</td>
<td>Math placement required</td>
<td>Enrollment permitted in MA 110</td>
</tr>
<tr>
<td>26 or greater (Math SAT: 600 or greater)</td>
<td>Math placement test not required</td>
<td>Enrollment permitted in MA 113 or MA 123</td>
</tr>
</tbody>
</table>

**CHEMISTRY 105**

Proficiency in chemistry and biology are options in the disciplinary requirements of the University Studies Program. If you plan to major in science, nursing, engineering, or a health profession, chemistry and biology may be important parts of your first year at UK. A strong math background is essential for success in chemistry, and a strong chemistry background is essential for success in biology. The chart below can help you determine what level of science you’re eligible to take.

If your ACT Math Score is:

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Math Placement Test Required</th>
<th>Eligible Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than or equal to 22 (Math SAT: less than or equal to 520)</td>
<td>Appropriate score on math placement test not achieved and MA 109 not completed</td>
<td>Enrollment in CHE 105 barred</td>
</tr>
<tr>
<td></td>
<td>or Appropriate score on math placement test achieved and enrollment permitted in MA 123</td>
<td>Enrollment permitted in CHE 105</td>
</tr>
<tr>
<td></td>
<td>or MA 109 completed with passing grade</td>
<td>Enrollment permitted in CHE 105</td>
</tr>
<tr>
<td>23 or greater (Math SAT: 540 or greater)</td>
<td>Math placement test not required</td>
<td>Enrollment permitted in CHE 105</td>
</tr>
</tbody>
</table>

**BIOLOGY 150, 152**

If your ACT Math Score is:

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Math Placement Test Required</th>
<th>Eligible Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than or equal to 25 (Math SAT: less than or equal to 580)</td>
<td>CHE 105 not completed</td>
<td>Enrollment in BIO 150 and BIO 152 barred</td>
</tr>
<tr>
<td></td>
<td>or Math placement exam placed in MA 113 or MA 123 and CHE 105 taken concurrently</td>
<td>Enrollment permitted in BIO 150 or BIO 152</td>
</tr>
<tr>
<td></td>
<td>or CHE 105 completed with a passing grade</td>
<td>Enrollment permitted in BIO 150 or BIO 152</td>
</tr>
<tr>
<td>26 or greater (Math SAT: 600 or greater)</td>
<td>CHE 105 taken concurrently</td>
<td>Enrollment permitted in BIO 150 or BIO 152</td>
</tr>
</tbody>
</table>
### University of Kentucky Policy

<table>
<thead>
<tr>
<th>AP Test</th>
<th>Score</th>
<th>Credit Awarded</th>
<th>Credit Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>3 - 5</td>
<td>A-H 106</td>
<td>3 credit hours for A-H 106 with a grade of CR.</td>
</tr>
<tr>
<td>Art Studio (Drawing)</td>
<td>3 - 5</td>
<td>A-S 102</td>
<td>3 credit hours for A-S 102 with a grade of CR.</td>
</tr>
<tr>
<td>Art Studio (2-D Design)</td>
<td>3 - 5</td>
<td>A-S 102</td>
<td>3 credit hours for A-S 102 with a grade of CR.</td>
</tr>
<tr>
<td>Art Studio (3-D Design)</td>
<td>3 - 5</td>
<td>A-S 103</td>
<td>4 credit hours for A-S 103 with a grade of CR.</td>
</tr>
<tr>
<td>Biology</td>
<td>3</td>
<td>BIO 102, 103</td>
<td>3 credit hours each for BIO 102, 103 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>4 or 5</td>
<td>BIO 150, 152,</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIO 151, 153</td>
<td>3 credit hours each for BIO 150, 152, 153 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 credit hours each for BIO 151, 153 with a grade of CR.</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3 - 5</td>
<td>MA 113</td>
<td>4 credit hours for MA 113 with a grade of CR.</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>3 - 5</td>
<td>MA 113, 114</td>
<td>4 credit hours each for MA 113, 114 with a grade of CR.</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3 - 5</td>
<td>CHE 105, 107</td>
<td>3 credit hours each for CHE 105, 107 with a grade of CR.</td>
</tr>
<tr>
<td>Chinese Language and</td>
<td>3</td>
<td>CHI 201</td>
<td>4 credit hours for CHI 201 with a grade of CR.</td>
</tr>
<tr>
<td>Culture</td>
<td>4</td>
<td>CHI 202</td>
<td>4 credit hours for CHI 202 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>CHI 301</td>
<td>3 credit hours for CHI 301 with a grade of CR.</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>3 - 5</td>
<td>CS 115</td>
<td>3 credit hours for CS 115 with a grade of CR.</td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>3 - 5</td>
<td>CS 115, 215</td>
<td>3 credit hours for CS 115 and 4 credit hours for CS 215 each with a grade of CR.</td>
</tr>
<tr>
<td>Economics (micro)</td>
<td>3 - 5</td>
<td>ECO 201</td>
<td>3 credit hours for ECO 201 with a grade of CR.</td>
</tr>
<tr>
<td>Economics (macro)</td>
<td>3 - 5</td>
<td>ECO 202</td>
<td>3 credit hours for ECO 202 with a grade of CR.</td>
</tr>
<tr>
<td>English Language/</td>
<td>3</td>
<td>ENG 101</td>
<td>3 credit hours for ENG 101 with a grade of CR. Choose either ENG 102 or ENG 104</td>
</tr>
<tr>
<td>Composition</td>
<td></td>
<td></td>
<td>(recommended).</td>
</tr>
<tr>
<td></td>
<td>4 - 5</td>
<td>ENG 104</td>
<td>4 credit hours for ENG 104 with a grade of CR.</td>
</tr>
<tr>
<td>English Literature/</td>
<td>3 - 5</td>
<td>ENG 161</td>
<td>3 credit hours for ENG 161 with a grade of CR. Does not satisfy University Writing</td>
</tr>
<tr>
<td>Composition</td>
<td></td>
<td></td>
<td>Requirement.</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>3 - 5</td>
<td>ENS 200</td>
<td>3 credit hours for ENS 200 with a grade of CR.</td>
</tr>
<tr>
<td>European History</td>
<td>3 - 5</td>
<td>HIS 104, 105</td>
<td>3 credit hours each for HIS 104, 105 with a grade of CR.</td>
</tr>
<tr>
<td>French Language</td>
<td>3</td>
<td>FR 201</td>
<td>3 credit hours for FR 201 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>4 or 5</td>
<td>FR 201, 202</td>
<td>3 credit hours each for FR 201, 202 with a grade of CR.</td>
</tr>
<tr>
<td>French Literature</td>
<td>3 - 5</td>
<td>FR 304</td>
<td>3 credit hours for FR 304 with a grade of CR.</td>
</tr>
<tr>
<td>German Language</td>
<td>3</td>
<td>GER 201</td>
<td>3 credit hours for GER 201 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>4 or 5</td>
<td>GER 201, 202</td>
<td>3 credit hours each for GER 201, 202 with a grade of CR.</td>
</tr>
<tr>
<td>Government and Politics,</td>
<td>3 - 5</td>
<td>PS 210</td>
<td>3 credit hours for PS 210 with a grade of CR.</td>
</tr>
<tr>
<td>Comparative</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government and Politics,</td>
<td>3 - 5</td>
<td>PS 101</td>
<td>3 credit hours for PS 101 with a grade of CR.</td>
</tr>
<tr>
<td>U.S.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Geography</td>
<td>3 - 5</td>
<td>GEO 172</td>
<td>3 credit hours for GEO 172 with a grade of CR.</td>
</tr>
</tbody>
</table>
# Special Academic Programs

## Japanese Language and Culture
- **JPN 201** 3 credit hours for JPN 201 with a grade of CR.
- **JPN 202** 3 credit hours for JPN 202 with a grade of CR.
- **JPN 301** 3 credit hours for JPN 301 with a grade of CR.

## Latin Literature
- **CLA 101, 102** 4 credit hours each for CLA 101, 102 with a grade of CR.
- **CLA 201, 202** 3 credit hours each for CLA 201, 202 with a grade of CR.
- **CLA 201, 202, 301** 3 credit hours each for CLA 201, 202, 301 with a grade of CR.

## Latin – Virgil
- **CLA 101, 102** 4 credit hours each for CLA 101, 102 with a grade of CR.
- **CLA 201, 202** 3 credit hours each for CLA 201, 202 with a grade of CR.
- **CLA 201, 202, 302** 3 credit hours each for CLA 201, 202, 302 with a grade of CR.

## Music Theory *
- **MUS 174** 3 credit hours for MUS 174 (elective only) with a grade of CR.
- **MUS 171** 2 credit hours for MUS 171 with a grade of CR.
- **MUS 171, 173** 2 credit hours each for MUS 171, 173 with a grade of CR.

## Music Theory * (with aural subscore)
- **MUS 170** 2 credit hours for MUS 170 with a grade of CR.
- **MUS 170, 172** 2 credit hours each for MUS 170, 172 with a grade of CR.

## Physics B
- **PHY 151, 152** 3 credit hours each for PHY 151, 152 with a grade of CR.
- **PHY 241, 242** Credit will be replaced with 5 credit hours each for PHY 211, 213 with a grade of CR upon presentation of documentation of appropriate laboratory experience to the Instructional Laboratory Specialist in the Department of Physics and Astronomy.

## Physics C ** (mechanics)
- **PHY 231** 4 credit hours for PHY 231 with a grade of CR.

## Physics C ** (electricity and magnetism)
- **PHY 232** 4 credit hours for PHY 232 with a grade of CR.

## Psychology
- **PY 110** 3 credit hours for PY 110 with a grade of CR.
- **PSY 100** 4 credit hours for PSY 100 with a grade of CR.

## Spanish Language
- **SPA 202** 3 credit hours for SPA 202 with a grade of CR.
- **SPA 210** 3 credit hours for SPA 210 with a grade of CR.
- **SPA 210, 211** 3 credit hours each for SPA 210, 211 with a grade of CR.

## Spanish Literature
- **SPA 202** 3 credit hours for SPA 202 with a grade of CR.
- **SPA 320** 3 credit hours for SPA 320 with a grade of CR.
- **SPA 320, 322** 3 credit hours each for SPA 320, 322 with a grade of CR.

## Statistics
- **STA 291** 3 credit hours for STA 291 with a grade of CR.

## U.S. History
- **HIS 108, 109** 3 credit hours each for HIS 108, 109 with a grade of CR.

## World History
- **HIS 104, 105** 3 credit hours each for HIS 104, 105 with a grade of CR.

---

<table>
<thead>
<tr>
<th><strong>AP Test</strong></th>
<th><strong>Score</strong></th>
<th><strong>Credit Awarded</strong></th>
<th><strong>Credit Statement</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Japanese Language and Culture</td>
<td>3</td>
<td>JPN 201</td>
<td>3 credit hours for JPN 201 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>JPN 202</td>
<td>3 credit hours for JPN 202 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>JPN 301</td>
<td>3 credit hours for JPN 301 with a grade of CR.</td>
</tr>
<tr>
<td>Latin Literature</td>
<td>3</td>
<td>CLA 101, 102</td>
<td>4 credit hours each for CLA 101, 102 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>CLA 201, 202</td>
<td>3 credit hours each for CLA 201, 202 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>CLA 201, 202, 301</td>
<td>3 credit hours each for CLA 201, 202, 301 with a grade of CR.</td>
</tr>
<tr>
<td>Latin – Virgil</td>
<td>3</td>
<td>CLA 101, 102</td>
<td>4 credit hours each for CLA 101, 102 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>CLA 201, 202</td>
<td>3 credit hours each for CLA 201, 202 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>CLA 201, 202, 302</td>
<td>3 credit hours each for CLA 201, 202, 302 with a grade of CR.</td>
</tr>
<tr>
<td>Music Theory*</td>
<td>3</td>
<td>MUS 174</td>
<td>3 credit hours for MUS 174 (elective only) with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>MUS 171</td>
<td>2 credit hours for MUS 171 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>MUS 171, 173</td>
<td>2 credit hours each for MUS 171, 173 with a grade of CR.</td>
</tr>
<tr>
<td>Music Theory* (with aural subscore)</td>
<td>4</td>
<td>MUS 170</td>
<td>2 credit hours for MUS 170 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>MUS 170, 172</td>
<td>2 credit hours each for MUS 170, 172 with a grade of CR.</td>
</tr>
<tr>
<td>Physics B</td>
<td>3 - 5</td>
<td>PHY 151, 152</td>
<td>3 credit hours each for PHY 151, 152 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Credit will be replaced with 5 credit hours each for PHY 211, 213 with a grade of CR upon presentation of documentation of appropriate laboratory experience to the Instructional Laboratory Specialist in the Department of Physics and Astronomy.</td>
</tr>
<tr>
<td>Physics C** (mechanics)</td>
<td>3 - 5</td>
<td>PHY 231</td>
<td>4 credit hours for PHY 231 with a grade of CR.</td>
</tr>
<tr>
<td>Physics C** (electricity and magnetism)</td>
<td>3 - 5</td>
<td>PHY 232</td>
<td>4 credit hours for PHY 232 with a grade of CR.</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
<td>PY 110</td>
<td>3 credit hours for PY 110 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>4 or 5</td>
<td>PSY 100</td>
<td>4 credit hours for PSY 100 with a grade of CR.</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>3</td>
<td>SPA 202</td>
<td>3 credit hours for SPA 202 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>SPA 210</td>
<td>3 credit hours for SPA 210 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>SPA 210, 211</td>
<td>3 credit hours each for SPA 210, 211 with a grade of CR.</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>3</td>
<td>SPA 202</td>
<td>3 credit hours for SPA 202 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>SPA 320</td>
<td>3 credit hours for SPA 320 with a grade of CR.</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>SPA 320, 322</td>
<td>3 credit hours each for SPA 320, 322 with a grade of CR.</td>
</tr>
<tr>
<td>Statistics</td>
<td>3 - 5</td>
<td>STA 291</td>
<td>3 credit hours for STA 291 with a grade of CR.</td>
</tr>
<tr>
<td>U.S. History</td>
<td>3 - 5</td>
<td>HIS 108, 109</td>
<td>3 credit hours each for HIS 108, 109 with a grade of CR.</td>
</tr>
<tr>
<td>World History</td>
<td>3 - 5</td>
<td>HIS 104, 105</td>
<td>3 credit hours each for HIS 104, 105 with a grade of CR.</td>
</tr>
</tbody>
</table>

*A score of 3 will earn 3 hours elective credit, equivalent to MUS 174. However, this credit will not apply to music theory requirements for a major or minor in music. Any subscore of 4 or 5 will earn credit towards music theory requirements for a major or minor in music as follows:
- A score of 4 on the written subscore (no aural stimulus) will earn 2 hours credit, equivalent to MUS 171, plus placement into MUS 173.
- A score of 5 on the written subscore will earn 4 hours credit, equivalent to MUS 171 and MUS 173, plus placement into MUS 271.
- A score of 4 on the aural subscore (with aural stimulus) will earn 2 hours credit, equivalent to MUS 170, plus placement into MUS 172.
- A score of 5 on the aural subscore (with aural stimulus) will earn 4 hours credit, equivalent to MUS 170 and MUS 172, plus placement into MUS 270.

** Upon presentation of documentation of appropriate laboratory experience, credit will also be given for the laboratories associated with these courses, PHY 241, 242 respectively.
<table>
<thead>
<tr>
<th>CLEP EXAMINATION</th>
<th>Scaled Score to Earn Credit</th>
<th>Equivalent UK Course</th>
<th>Credit Hours</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMPOSITION AND LITERATURE</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition with Essay</td>
<td>50 or above</td>
<td>ENG 161</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td><strong>FOREIGN LANGUAGES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Level French Language</td>
<td>50-65</td>
<td>FR 201</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td></td>
<td>66 or above</td>
<td>FR 201, 202</td>
<td>6</td>
<td>credit only</td>
</tr>
<tr>
<td>College Level German Language</td>
<td>50-65</td>
<td>GER 201</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td></td>
<td>66 or above</td>
<td>GER 201, 202</td>
<td>6</td>
<td>credit only</td>
</tr>
<tr>
<td>College Level Spanish Language</td>
<td>50-65</td>
<td>SPA 201</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td></td>
<td>66 or above</td>
<td>SPA 201, 202</td>
<td>6</td>
<td>credit only</td>
</tr>
<tr>
<td><strong>HISTORY AND SOCIAL SCIENCES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Government</td>
<td>50 or above</td>
<td>PS 101</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td>History of the United States I</td>
<td>50 or above</td>
<td>HIS 108</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td>History of the United States II</td>
<td>50 or above</td>
<td>HIS 109</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>50 or above</td>
<td>PSY 100</td>
<td>4</td>
<td>credit only</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>50 or above</td>
<td>ECO 202</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>50 or above</td>
<td>ECO 201</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td>Introductory Sociology</td>
<td>50 or above</td>
<td>SOC 101</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td>Western Civilization I:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ancient Near East to 1648</td>
<td>50 or above</td>
<td>HIS 104</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td>Western Civilization II:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1648 to the Present</td>
<td>50 or above</td>
<td>HIS 105</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td><strong>SCIENCE AND MATHEMATICS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus with Elementary Functions</td>
<td>50 or above</td>
<td>MA 113</td>
<td>4</td>
<td>credit only</td>
</tr>
<tr>
<td>General Biology</td>
<td>55-59</td>
<td>BIO 103</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td></td>
<td>60-64</td>
<td>BIO 102, 103</td>
<td>6</td>
<td>credit only</td>
</tr>
<tr>
<td></td>
<td>65-80</td>
<td>BIO 150, 152</td>
<td>6</td>
<td>credit only</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>50 or above</td>
<td>CHE 105, 107</td>
<td>6</td>
<td>credit only</td>
</tr>
<tr>
<td><strong>BUSINESS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principles of Management</td>
<td>50</td>
<td>MGT 301</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td>Principles of Accounting</td>
<td>50</td>
<td>ACC 201, 202</td>
<td>6</td>
<td>credit only</td>
</tr>
<tr>
<td>Introductory Business Law</td>
<td>50</td>
<td>MGT 341</td>
<td>3</td>
<td>credit only</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>50</td>
<td>MKT 300</td>
<td>3</td>
<td>credit only</td>
</tr>
</tbody>
</table>

For additional information on credits awarded for CLEP examinations, contact the Registrar’s Office, 10 Funkhouser Building, (859) 257-8729. For information on CLEP exams in general, visit the College Board Web site at: [www.collegeboard.com/clep/](http://www.collegeboard.com/clep/).
Certain conditions concerning the number and level of courses required, the patterns they must follow, the amount of time to be spent as a full-time student, grades and conduct have been established by the University Senate for all University of Kentucky students who are pursuing a degree. Those which relate to academic requirements are listed below. Others will be found in the University Senate Rules, pertinent portions of which are printed in the booklet Student Rights and Responsibilities, which is available to all students through the Dean of Students Office.

**STUDENT LOAD**

With the exceptions noted below, the maximum load to be carried during any semester by an undergraduate student (including residence and correspondence courses and to courses taken on an audit basis) shall be 19 credit hours.

The maximum allowable load to be carried during any summer term/session for undergraduate students (including residence, correspondence or audit courses) shall be 9 credit hours in the eight-week summer session and 4 credits in the four-week term, but under no circumstances no more than 13 credits during the summer term and summer session.

Students may be enrolled in a maximum of nine credit hours of classes meeting concurrently during an eight week session. For this purpose, a course meeting for a four-week period during the eight-week session must be counted double. Thus a student may enroll in two consecutive four-week (three credit hours) classes plus one eight week class, or as many as three eight week (three credit hour) classes. A student would not, however, be able to enroll in two four-week (three credit hour) classes meeting concurrently.

A student may be permitted by the dean of his or her college to carry such extra credit hours as in the dean’s judgment, based upon the student’s past performance, the student can complete successfully.

A student on academic probation shall take no more than fifteen (15) credit hours in a semester, three (3) credit hours in a four-week term, or seven (7) credit hours in a six- or eight-week session. This rule may be waived by written permission from the student’s academic dean or the dean’s designee. The waiver and the rationale for the waiver must be documented in the student’s record maintained by the college.

Students in the combined Bachelor’s/Master’s degree program (University Scholars) shall not take more than 16 credit hours per semester. Permission to exceed that number is subject to approval by the Director of Graduate Studies and the Dean of The Graduate School.

The professional colleges and The Graduate School may set lower maximum loads which are consistent with their degree requirements.

The maximum allowable load to be carried during any summer term for graduate students is 9 credit hours in the eight-week summer session and 4 credit hours in the four-week term. The maximum load for graduate students in any combination of the four- and eight-week sessions/terms is 12 credit hours.

A student may be registered simultaneously at the University of Kentucky and at another institution only with the approval of the dean of the college in which the student is registered at the University of Kentucky, the credit hours obtained at the other institution being considered a part of the student’s maximum load. If the simultaneous registration has not been authorized, the transfer of credit from the other institution may be denied.

**CLASSIFICATION**

Any undergraduate student shall be classified by the Registrar as a freshman if less than 30 hours have been completed; as a sophomore upon completion of 30 credit hours; as a junior upon completion of 60 credit hours; and as a senior upon completion of 90 credit hours.

A Law student is classified as a second-year student upon completion of 24 credit hours and as a third-year student upon completion of 53 credit hours. However, a Law student is not classified as a second-year student until that student has been in residence for at least two semesters, nor as a third-year student until that student has been in residence for at least three semesters.

A pharmacy student is classified as a second-year student upon completion of 28 credit hours and as a third-year student upon completion of 56 credit hours.

Credit granted by examination is included in determining a student’s classification.

**GENERAL GRADING SYSTEM**

The general grading system uses a series of letters, to which are assigned grade-point values. The system is based neither on an absolute numerical system nor on a distribution curve, but on the following descriptions:

- **Grade A** represents exceptionally high achievement as a result of aptitude, effort, and intellectual initiative. It is valued at four (4) quality points for each credit hour.
- **Grade B** represents a high achievement as a result of ability and effort. It is valued at three (3) quality points for each credit hour.
- **Grade C** represents satisfactory achievement for undergraduates; represents unsatisfactory achievement for graduate students and is the minimum passing grade for which credit is conferred. It is valued at two (2) quality points for each credit hour.
- **Grade D** represents unsatisfactory achievement for undergraduates and is the minimum grade for which credit is conferred; the grade is not to be used for graduate students. It is valued at one (1) quality point for each credit hour.
- **Grade E** represents unsatisfactory performance and failure in the course. It is valued at zero (0) quality points and zero (0) credit hours. A student receiving this grade can obtain credit in the course only by repeating the entire work of the course in class, or by special examination in accordance with the procedures outlined under Special Examinations. In rare cases in which undue hardship is involved in repeating the work in class, the dean of the college in which the student is enrolled may approve repeating the work by correspondence.
- **Grade P** represents a passing grade in a course taken on a Pass/Fail basis. It may also be assigned by the University Appeals Board in cases involving a violation of student academic rights. Credit hours successfully completed under this grade will count towards graduation but will not be used in calculating grade-point averages.
- **Grade F** represents failure in a course taken on a Pass/Fail basis. It is valued at zero (0) quality points and zero (0) credit hours.
- **Grade AU** represents a completion of a course attended on an audit basis. It is valued at zero (0) quality points and zero (0) credit hours.
- **Grade CR** is a grade assigned to AP or CLEP scores indicating that credit has been assigned for a course. Credit hours will count towards graduation but will not be used in calculating grade-point averages.
Academic Requirements

Grade I—Incomplete—means that part of the regularly assigned work of the course remains undone. It shall be conferred only when there is a reasonable possibility that the student can complete the work within the allowable period of time for removal of an I grade and that a passing grade will result from completion of the work. Except under exceptional circumstances, the student shall initiate the request for the I grade. An I grade shall not be conferred when the student’s reason for incompleteness is unsatisfactory to the Instructor of Record.

A grade of I must be replaced by a regular final letter grade not later than 12 months from the end of the academic term in which the I grade was awarded or prior to the student’s graduation, whichever occurs first. The Registrar’s Office shall notify the Instructor of Record at least two months prior to expiration of the allowable period. The Instructor of Record can extend the allowable period for up to an additional 12 months by completing a grade assignment form. If the Instructor of Record is not available, the department chair or dean of the college in which the course is offered may complete a grade assignment form to extend the allowable period for up to 12 months. In the event the grade of I is replaced by a regular final letter grade within the allowable period, the Registrar shall change the I grade to a grade of E on the student’s permanent academic record and adjust the student’s GPA accordingly. In the event that an I becomes an E, the Instructor of Record may submit a grade assignment form to replace the E within 12 months from the time the E was assigned. A graduate who had an I grade on his or her academic record at the time of graduation (and which grade was subsequently changed to an E by the Registrar) may be allowed a maximum of 12 months following the end of the semester, term or session in which the course was taken to satisfactorily complete the course and receive a grade change.

For each I grade assigned, the Instructor of Record shall complete an appropriate file record on a standard form provided by the Registrar, which shall include the following: (a) the name of the student; (b) the course number and hours of credit; (c) semester and year of enrollment; (d) signature of the Instructor of Record; (e) a brief statement of the reason(s) for recording the incomplete; (f) specific instructions on how alternate grades on the work to be completed will affect the final grade; (g) the specific time requirement (not to exceed 12 months) set by the Instructor of Record for removal of the I grade and consequences of not removing the I grade; and (h) signature of the student, if feasible.

The Instructor of Record shall provide a completed copy of this record to the student and the department chair at the time the I grade is reported. The term student in this context excludes only students in the Graduate School and the Colleges of Medicine and Dentistry.

Grade IP represents satisfactory work in progress in courses carrying no academic credit. It is valued at zero (0) quality points and zero (0) credit hours. The grade IP may be recorded for students in zero-credit courses of research, independent work, or seminar-type, if at the end of a semester the student, because of the nature or size of the project, has been unable to complete the course. The project must be substantially continuous in its progress. When the work is completed, a final grade will be substituted for the IP. This grade may not be conferred to a student who has done unsatisfactory work or to one who has failed to do a reasonable amount of work.

Grade N represents a temporary grade to be submitted for students who have been entered by the Registrar into official class rolls but have never attended class and who have not officially withdrawn. The Registrar shall remove their names from the official class roll and the student’s enrollment in the class shall not be recorded in the student’s official academic record. (As a temporary mark, N carries no credit hours or quality points).

Grade S represents a final grade in courses carrying no academic credit or in courses used for residency credit or dissertation/thesis credit. It is valued at zero (0) quality points.

Grade SI represents an interim grade in credit-bearing seminars, independent work courses, or research courses if these courses extend beyond the normal limits of a semester or summer term. All SI grades must be replaced by a regular final letter grade prior to the Qualifying Examination or Final Examination for doctoral students or prior to graduation in all other cases. As a temporary mark, SI carries no credit hours or quality points.

Grade UN represents a final grade in courses carrying no academic credit, in graduate residence courses, or as an interim grade in specific types of courses for which a student has done unsatisfactory work or has failed to do a reasonable amount of work. It is valued at zero (0) quality points and zero (0) credit hours.

Grade XE represents failure in a course due to an academic offense. It is valued at zero (0) quality points and zero (0) credit hours. The repeat option may not be exercised for any course in which the grade of XE was received. A grade of XE normally may not be changed to a W by retroactive withdrawal, except upon appeal to the University Appeals Board as prescribed by University Senate Rules.

Grade XF represents failure in a course taken on a Pass/Fail basis due to an academic offense. It is valued at zero (0) quality points and zero (0) credit hours. The repeat option may not be exercised for any course in which the grade of XF was received. A grade of XF may not be changed to a W by retroactive withdrawal, except upon appeal to the University Appeals Board as prescribed by University Senate Rules.

Grade W denotes withdrawal from class. It may be assigned by the University Appeals Board in cases involving a violation of student academic rights. It is valued at zero (0) quality points and zero (0) credit hours.

Grade X. Reenrollment recommended (developmental courses only). It has no value in computing grade point average.

Official Withdrawal from a Course: Any student may withdraw from any class (except for those used to meet the Writing requirement) during the withdrawal period which is defined as the period prior to and including the:

a. end of the ninth week for fall or spring semester;
b. third day of the fifth week for eight week summer session/term;
c. second day of the third week for four week summer session/term.

Students who withdraw during the first three (3) weeks of the course in the fall or spring semester (or a proportionate amount of time in the summer term/session or other courses of less than a full semester’s duration) shall be removed from the class roll, and no grade or record of enrollment shall appear on the student’s transcript. Students who withdraw during the remaining portion of the withdrawal period will receive a grade of W which will appear on their transcripts.

A student may withdraw from a class or from the University during the latter half of the semester/session/term upon approval by the dean of the student’s college of a petition certifying urgent nonacademic reasons including but not limited to: illness or injury of the student; serious personal or family problems; serious financial difficulties.

Before acting on such a petition, the dean will consult with the Instructor of Record of the class. The dean may not delegate the authority to approve or deny a petition to withdraw to the University Registrar or to any other agency external to his or her college. If such a petition is approved by the dean of the student’s college, the dean shall inform the student in writing the Instructor of Record of the class of his/her action, and the student shall be assigned a grade of W.

First-year full time students enrolling for the first time in summer 2007 or later may withdraw up to three weeks beyond the published date in the fall or spring semester. These students must first consult their advisor in order to withdraw after the midterm date.

A student may also petition the dean of the student’s college to withdraw from a class during the latter half of the semester/session/term if he or she has expressed an absence in excess of one-fifth of the class contact hours in a course where attendance is required or is a criterion for a grade.

Unofficial Withdrawal from a Course: Any student who misses the first two class periods of a course without notifying the department of their intention to attend may be reported by the department to the dean who shall drop the student from the course and notify the Registrar that the student has been removed from the class roll. The Registrar will inform the student that she/he has been dropped. The student will have no record of the class appear on their transcripts.

Withdrawal to Enter Military Service: Students who withdraw (and within ten (10) days enter the Armed Services either mandatorily or voluntarily) after completing the twelfth week of the semester, the third week of the four week summer term, or the sixth week of the 8 week
summer session, or later, shall be entitled to receive full credit and residence for the course. The grade report shall be that attained in the course up to the time of withdrawal. If, with the credit and residence time granted, the student has fulfilled all requirements for a degree, the student shall be recommended for that degree by the University Senate. If a comprehensive course examination is required for graduation, this requirement shall be waived.

Retroactive Withdrawal: Typically, a student may withdraw from a given semester only if the withdrawal is from all classes. A grade of E, XE, or XF assigned as a result of an academic offense may be changed to a W only by a petition to the University Appeals Board and only after a retroactive withdrawal for the semester in which the grade was assigned is granted. The student must demonstrate that the hardships enumerated in the request for the Retroactive Withdrawal also resulted in the academic offense in a manner that the student’s culpability was severely diminished as a result.

Requests for retroactive withdrawals shall be made of the Dean of the college in which the student was enrolled at the time the classes were taken. The complete request shall be made before the student has graduated and no later than two calendar years from the last day of class for the semester for which the withdrawal is requested. This fully complete request shall be submitted using the University Senate Retroactive Withdrawal Application that includes a form on which an instructor can offer feedback, along with the documentation required by the University Senate as described on that form. Retroactive withdrawals may be granted only when the student has demonstrated satisfactory evidence that the student has incurred: (a) a serious injury or illness; (b) serious personal or family problems; (c) serious financial difficulties; or (d) permanent disability verified by the Disability Resource Center and diagnosed after the semester for which the withdrawal is requested.

Audit. Students who register for an audit do so for reasons other than fulfilling explicit requirements. They must come to individual agreements with the instructor as to what responsibilities they will be expected to perform. Normally, students who audit would be expected to do the readings and attend class; they may be required to enter more fully into the class work. In any case, they will receive no credit hours or grades. Any change from audit to credit or credit to audit by a student regularly enrolled in a college must be accomplished within three (3) weeks from the beginning of classes in the fall or spring semester (or a proportionate amount of time in the summer term/session or other courses of less than a full semester’s duration). No credit can be conferred for a course assessed nor is a student permitted to take an examination for credit except for the special examinations described on page 66 under Special Examinations. A student who initially enrolls in a class as an auditor must attend at least 80 percent of the classes by the end of classes in the fall or spring semester (or a proportionate amount of time in the summer term/session or other courses of less than a full semester’s duration). After such time, a student may not change his or her grading option without the written approval of the Senate Council for a college or department. Prerequisites for such courses may be waived with the consent of the Instructor of Record. Students are expected to participate fully in the course and take all examinations. Students may change their grading option (Pass/Fail to letter grade or letter grade to Pass/Fail; credit to audit or audit to credit) within three (3) weeks from the beginning of classes in the fall or spring semester (or a proportionate amount of time in the summer term/session or other courses of less than a full semester’s duration). After such time, a student may not change his or her grading option without the written approval of the student’s academic dean or the dean’s designee. The waiver and the rationale for the waiver must be documented in the student’s record maintained by the college.

Courses offered only on a Pass/Fail basis shall not be included in the maximum number of elective courses which a student may take under these provisions.

The Instructor of Record shall not be notified by the Registrar’s Office or by another office of the University of those students who are taking the course Pass/Fail. The instructor of Record shall submit a regular letter grade to the Registrar’s Office which will take the appropriate action to change the grade into Pass/Fail grading track for records. Neither a grade of P nor a grade of F shall be taken into consideration in calculating a student’s GPA, except as described in Senate Rule 5.1.2.1.

Giving a grade or credit for AP tests and for CLEP tests does not mean that a student may elect to take a required course for Pass/Fail. If the student elects to take the course he or she must get a letter grade to satisfy the USP requirements.

Missing Grades. Three asterisks (###) appear in a grade report when a grade has not been recorded for the class. The Registrar’s Office shall notify all unit or program heads at the end of each semester regarding all missing grades in all graduate, undergraduate and professional courses offered by that unit. The unit head shall have six weeks to confer a grade in the course in consultation with the course Instructor of Record, if possible. The Registrar will notify the student when his or her grade has been changed. Any appeals under this rule shall be taken to the Academic Ombud.
Academic Requirements

Grade Point Average (GPA)

GPA is the ratio of the number of quality points gained to the number of credit hours (whether earned or not) in courses for which the grades A, B, C, D, or E were conferred, excluding grades in developmental or remedial courses.

If a student repeats a course in which a grade of B or better has been received, any subsequent grades of B or better and credit hours earned for those courses (if any) shall be ignored in computing the student’s grade-point average, unless the repeat option has been exercised according to Rule 5.3.1.1. A student does not repeat a course within the meaning of this rule if he or she only repeats the same course number where there are multiple topics, subtitles, independent study, or other courses allowed by the student’s program using a common course number.

Credit hours are considered as earned only if a grade of A, B, C, D, P, or S was conferred.

EXCEPTIONS TO THE GRADING SYSTEM

College of Law

The College of Law uses a special letter grading system in which the following grades are conferred with the respective quality point values indicated:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>E</td>
<td>0</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
</tbody>
</table>

A student’s academic grade record is expressed as a grade-point average computed by multiplying the semester hours of credit for each course by the quality point value of the grade received in the course. These products are added together, and the sum is divided by the total semester hours attempted. The grade-point average thus derived is the basis for each student’s academic status as indicated in the published rules and policies of the College of Law Faculty.

Selected College of Law courses are graded on a pass/fail basis, and law students enrolled in courses offered by The Graduate School for which the College of Law grants credit toward graduation are treated by the College of Law as pass/fail courses. A failing grade (F) in any pass/fail course in the College of Law or any graduate school course in which a student in the College of Law enrolls for credit toward graduation from the College of Law will be taken into account at a quality point value of zero (0) in computing the student’s grade-point average.

Pass/Fail Policy for College of Law

Students in the College of Law are bound by the following:

a. No more than six hours of graduate courses outside of the College of Law, graded on a pass/fail basis, shall be counted.

b. No more than six hours of courses in the College of Law that are offered only on a pass/fail basis shall be counted.

c. No more than nine of the total number of pass/fail credit hours, whether earned for graduate school courses under (a) or for College of Law courses offered only on a pass/fail basis under (b), shall be counted.

d. No more than one graduate school course outside the College of Law, graded on a pass/fail basis, may be credited in any one semester.

Students in joint degree programs may only take up to six pass/fail course credit hours in the law school courses and may take no courses outside the College of Law for credit toward the J.D. other than pursuant to the applicable joint degree program.

College of Dentistry

An A, B+ or a B is within the expected range of performance. A C is a marginal level of performance. To remain in good academic standing and to graduate, a student must maintain a grade-point average (GPA) of 2.75 or more. Student performance will be reported to the University Registrar’s Office as follows:

A represents exceptionally high level of performance; four (4) quality points are awarded to each credit hour.
B+ represents a high level of performance; three and one-half (3.5) quality points are awarded for each credit hour.
B represents the minimum level of performance; three (3) quality points are awarded for each credit hour.
C represents a marginal level of performance; three (3) quality points are awarded for each credit hour.
D represents an unacceptable level of performance; zero (0) quality points are awarded for each credit hour.
P represents a passing grade in courses taken on a pass/fail basis. It is not used in GPA calculations.
P represents an unacceptable level of performance in courses taught on a pass/fail basis. It is not used in GPA calculations.
I – incomplete – course objectives have not been completed during the allotted course time due to circumstances usually beyond the student’s control. An I grade shall be conferred only when there is a reasonable possibility that a passing grade will result when work is completed. An I must be replaced by another grade within 12 months or before graduation, whichever occurs sooner. After this period, an I grade will automatically convert to an E or an F grade as appropriate.
W – withdrawn – this grade will be awarded to a student who withdraws from a course or from the college. It shall be awarded only after recommendation by the Academic Performance Committee and approval by the dean.

College of Medicine

A represents exceptionally high achievement in performance. It is valued at four (4) quality points for each credit hour.
B represents the expected level of achievement or performance in each course. This grade reflects student competence in all areas of course requirements. It is valued at three (3) quality points for each credit hour.
C represents marginal performance. It is valued at two (2) quality points for each credit hour.
D represents failure and unacceptable performance in a course. It is valued at zero (0) quality points for each credit hour.
P represents a passing grade in a course taken on a Pass/Fail basis. It is not used in quality point calculations.
W denotes withdrawal from the college or from an elective course. W must be approved or recommended by the Student Progress and Promotion Committee. Withdrawal from a required course is not permitted, except when a student withdraws from the college. A student may withdraw from an elective and the W will remain on the record.
U represents unsatisfactory performance in a specific area of course requirements. It is conferred instead of an E grade when evidence exists that the student might earn a passing grade upon completion of make-up work. In the interim the U will be valued at one quality point for each credit hour. A U grade must be made up before the student can be promoted to the next year of the curriculum. The quality point calculation will then be the average of the U and the grade conferred after the make-up.
I represents incomplete work at the time grades are submitted for courses. It is conferred only when there is a reasonable possibility that a grade of C or better will be earned upon completion of the work. All I grades in required courses must be removed by a passing grade before a student can be promoted to a subsequent year. If a student later withdraws from the college, an outstanding I grade can revert to a W grade at the discretion of the Student Progress and Promotion Committee.

Design and Landscape Architecture

Students enrolled in courses numbered 800 or higher in the College of Design or the Program in Landscape Architecture in the College of Agriculture shall be conferred the following grades with the respective quality point values indicated:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>B+</td>
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<tr>
<td>C+</td>
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<tr>
<td>D+</td>
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<tr>
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<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
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<td>D</td>
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</tr>
<tr>
<td>A-</td>
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</tr>
<tr>
<td>C-</td>
<td>0.7</td>
</tr>
</tbody>
</table>

The use of the plus-minus system does not change any college or university GPA requirement, nor the method by which GPAs are computed, nor the interpretations of other grades awarded, such as F, I, P, W, and S.
All students enrolled in courses using the plus/minus grading system will have the appropriate point value calculated into their GPA regardless of their college of origin. For all studio work in the School of Architecture, the minimum passing grade from level to level in the studio sequence shall be a grade of C. In the Program in Landscape Architecture, students must earn a C grade or better in major design studios in order to advance to the next level in the curriculum.

OTHER REGULATIONS

Definition of a Major
A major is a primary area of study defined by a set of course and/or credit hour requirements within specified disciplines. Within degree programs, majors may be further defined by requirements in an area of emphasis (also known as an “option”).

Undergraduate Major Requirements
Students at the University of Kentucky who have not chosen a major or been admitted to a selective admissions college and who have earned at least 45 credit hours should meet regularly with an advisor who will help the student to choose a major or seek admission to a selective admissions college. Students at the University of Kentucky who have not chosen a major or been admitted to a selective admissions college and who have earned at least 60 credit hours will not be permitted to register for classes, except registration will be permitted for the following students if they have earned no more than 75 credit hours:
1. Students lacking specific courses to gain admission to a college or to declare a particular major who have a written commitment from the college of their choice to accept them upon successful completion of specified courses;
2. Students who have been dropped from a college for academic reasons, or who have been readmitted or transferred to the University of Kentucky.
This rule may be waived by the dean of the college in which the student is currently enrolled or into which the student wishes to transfer or be readmitted.

Language Limitations for Foreign Students
Students whose native language is other than English and who have had formal instruction in schools of their own country shall not be permitted to take elementary, intermediate or conversation courses or examinations in that language.

Late Registration
After the sixth day of classes for a 15-week semester term or a proportionate number of days for shorter terms as determined and published by the Registrar, no student may register for an organized class without written permission from the student’s academic dean (or dean’s designee) and the course instructor. The college in which the course is listed may require additional approval. The waiver and the rationale for the waiver must be documented in the student’s record in the college.
The Registrar may set a later date for final registration in classes that do not start on the first day of a semester or a summer session, or for the registration of a group of students who were not present at the regular registration time.

Participation in Intercollegiate Athletics
The University accepts the eligibility rules for intercollegiate athletics as set up by the Southeastern Conference, National Collegiate Athletics Association, Region II, the Association of Intercollegiate Athletics for Women, and the Kentucky Women’s Intercollegiate Conference.

Attendance and Completion of Assignments
For each course in which the student is enrolled, the student shall be expected to carry out all required work including laboratories and studios, and to take all examinations at the class period designated by the instructor.
Each instructor shall determine the policy regarding completion of assigned work, attendance in class, absences at announced or unannounced examinations, and excused absences in excess of one-fifth of class contact hours. This policy shall be presented in writing to each class at its first or second meeting. Students’ failure to comply with the announced policy may result in appropriate reductions in grade as determined by the Instructor of Record.

Excused Absences
A student shall not be penalized for an excused absence. The following are defined as excused absences:
1. Significant illness of the student or serious illness of a member of the student’s household (permanent or campus) or immediate family. The Instructor of Record shall have the right to request appropriate verification.
2. The death of a member of the student’s household (permanent or campus) or immediate family. The Instructor of Record shall have the right to request appropriate verification. For the purpose of this rule, immediate family is defined as spouse or child or parent (guardian) or sibling (all of the previous include steps, halves and in-laws of the same relationship); and grandchild or grandparent.
3. Trips for members of student organizations sponsored by an educational unit, trips for University classes, and trips for participation in intercollegiate athletic events, including club sports registered with the university as well as varsity sports. When feasible, the student must notify the Instructor of Record prior to the occurrence of such absences, but in no case shall such notification occur more than one week after the absence. Instructors of Record may request formal notification from appropriate University personnel to document the student’s participation in such trips.
4. Major Religious Holidays. Students are responsible for notifying the Instructor of Record in writing of anticipated absences due to their observance of such holidays no later than the last day for adding a class.
5. Any other circumstance which the Instructor of Record finds reasonable cause for absence.

Students missing any graded work due to an excused absence bear the responsibility of informing the Instructor of Record about their excused absence within one week following the period of the excused absence (except where prior notification is required), and of making up the missed work. The Instructor of Record shall give the student an opportunity to make up the work and/or the exams missed due to an excused absence, and shall do so, if feasible, during the semester in which the absence occurred. The student shall be given the opportunity to make up exams missed due to an excused absence during the semester in which the absence occurred, if feasible. In those instances where the nature of the course is such that classroom participation by the student is essential for evaluation, the instructor shall, if feasible, give the student an opportunity to make up the work missed during the semester in which the absence occurred.

If attendance is required by the class policies elaborated in the syllabus or serves as a criterion for a grade in a course, and if a student has excused absences in excess of one-fifth of the class contact hours for that course, a student shall have the right to petition for a W, and the Instructor of Record may require the student to petition for a W or take an I in the course.

Dead Week
The last week of instruction of a regular semester is termed “Dead Week.” This term also refers to the last three days of instruction of a summer session and a summer term.
In cases of “Take Home” final examinations, students shall not be required to return the completed examination before the regularly scheduled examination period for that course.
No examinations, including final examination, may be scheduled during the Dead Week.
Academic Requirements

Only quizzes that are regularly scheduled at least as frequently as every other week and listed in the syllabus and all have equal weights will be allowed during the Dead Week.

No project/lab practicals/paper/presentation deadline shall be scheduled to fall during the Dead Week unless it was scheduled in the syllabus.

Make-up exams are allowed during Dead Week.

Final Examinations

If a final examination is given, it is to be administered during the examination period as scheduled by the Registrar for the semesters of the regular school year. These examination periods utilize the last five days of each semester, and are preceded by a study day or weekend on which no classes or examinations are scheduled.

Final examinations, where appropriate, are administered during the last class day of the intersession and the summer session/term.

Final examinations may be given at times other than the regularly schedule times in the following instances:

Faculty: In the case of conflicts or undue hardship for an individual instructor, a final examination may be rescheduled at another time during the final examination period upon the recommendation of the chairperson of the department and with the concurrence of the dean of the college.

Students: Any student with more than two final examinations scheduled on any one date is entitled to have the examination for the class with the highest catalog number rescheduled at another time during the final examination period. In case this highest number is shared by more than one course, the one whose departmental prefix is first alphabetically will be rescheduled. The option to reschedule must be exercised in writing to the appropriate instructor of Record or his/her designee two weeks prior to the last class meeting.

If a conflict is created by rescheduling of an examination, the student is entitled to take the rescheduled examination at another time during the final examination period. In the case of undue hardship for an individual student, a final examination may be rescheduled by the instructor.

Common Examinations

A student enrolled in a course where a common exam is scheduled may also enroll in a class scheduled in the same time slot of the common exam.

If a student has a course scheduled at the same time as a common exam and the student has written notice of the conflict to the instructor at least two weeks prior to the common exam, the student shall be entitled to an excused absence from the conflicting common examination.

Common Examinations Scheduled for the Same Time

Any student for whom two examinations have been scheduled for the same time shall be entitled to have the examination for the class with the highest catalog number rescheduled. In case both classes have the same number, the one whose departmental prefix is first alphabetically will be rescheduled. The option to reschedule must be exercised in writing to the appropriate instructor two weeks prior to the scheduled exam.

Special Examinations

Any full-time or part-time student enrolled in the University, and in good academic standing, has the right to request a special examination for credit in many courses offered (check with the offering department), regardless of whether the student has audited the course, is currently enrolled in it, or has studied for it independently. Please note, most elementary and intermediate foreign language courses are not available on the basis of a special examination.

Application for a special examination must be made in writing. (Students should obtain application forms in the Registrar’s Office.) Undergraduates should address requests to the chair of the department in which the course is given, or to the office of the educational unit responsible; graduate students, to the director of graduate studies in the department in which the course is given. Approval of requests from undergraduate students rests with the department chairperson; from graduate students, with the Dean of The Graduate School, acting upon recommendation of the director of graduate studies, if it is decided that the student has not furnished evidence that he or she is reasonably prepared to take the examination, or that the course is of such a nature that credit by examination is inappropriate. (The fact that a student has failed the course within the last semester may be regarded as evidence that the student is unprepared to take a special examination.)

The examiner designated by the educational unit may schedule the examination at his or her convenience, but must offer it within a reasonable time after the student has submitted his or her request.

Examinations shall be given during the final examination period. In the case of undue hardship for an individual student, a final examination may be rescheduled by the instructor.

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Application for a special examination must be made in writing. (Students should obtain application forms in the Registrar’s Office.) Undergraduates should address requests to the chair of the department in which the course is given, or to the office of the educational unit responsible; graduate students, to the director of graduate studies in the department in which the course is given. Approval of requests from undergraduate students rests with the department chairperson; from graduate students, with the Dean of The Graduate School, acting upon recommendation of the director of graduate studies.

The request for special examination may be denied by the department chair or the office of the educational unit responsible, or the Dean of The Graduate School, acting upon recommendation of the director of graduate studies, if it is decided that the student has not furnished evidence that he or she is reasonably prepared to take the examination, or that the course is of such a nature that credit by examination is inappropriate. (The fact that a student has failed the course within the last semester may be regarded as evidence that the student is unprepared to take a special examination.)

The examiner designated by the educational unit may schedule the examination at his or her convenience, but must offer it within a reasonable time after the student has submitted his or her request.

Examinations shall be given during the final examination period. In the case of undue hardship for an individual student, a final examination may be rescheduled by the instructor.
Removal from Probation

Except as provided for by specific college probation policy, an undergraduate student may be removed from probation by the dean of the college when the student on scholastic probation has earned 90 semester hours (senior standing), and at the end of a semester or session has a cumulative grade-point standing of 2.0.

Academic Suspension

Students are suspended if:
1. They fail to earn a 2.0 term GPA for any term while on probation;
2. They have three consecutive UK terms in which their cumulative GPA remains below 2.0;

or
3. Their GPA is below 0.6 after their first term, if the semester’s GPA is based on at least 9 hours of grades, A, B, C, D, or E.

Notwithstanding the provisions above, in the case of a student eligible for suspension, the dean of the student’s college may continue a student on academic probation if the individual case so justifies with notification to the Director of Undergraduate Studies.

General Rules Pertaining to Students Under Academic Suspension

A student academically suspended from the University may not enroll in any courses (including courses taken through the Office of Independent Study) offered by the University nor take any special examination for University credit. Students already enrolled in correspondence course(s) will be allowed to complete the course work upon notification of his/her suspension.

A student academically suspended from the University a second time shall not be readmitted to the University except in unusual circumstances and then only upon recommendation of the dean of the college in which the student plans to enroll and approval of the University Senate Council.

Once reported to the Registrar, an academic suspension may be rescinded by the dean only in the event of an error in the determination of the student’s eligibility for suspension, an official grade change that alters the student’s suspension eligibility, or exceptional circumstances.

Reinstatement

After they have remained out of the University for at least a semester and a summer session (a semester for students academically suspended at the end of a summer session), students who have been academically suspended may only be reinstated by the dean of the college in which they plan to enroll when they present evidence that they are capable of performing at the level required to prevent being suspended a second time. After being reinstated, students must apply for readmission to the University.

General Rules for Reinstated Students

A student who has been academically suspended shall, upon reinstatement, be placed on scholastic probation and be subject to final academic suspension from the University if:
1. The student acquires any additional deficit during any semester or session while on academic probation;
2. The student has failed to meet the requirements for removal from academic probation by the end of the third semester following the reinstatement.

Once reinstated students have been removed from scholastic probation, they will be subject to the same conditions for subsequent academic suspension as students who have not previously been academically suspended.

Readmission After Two or More Years
(Academic Bankruptcy)

Undergraduate students who have been readmitted through the usual channels after an interruption of two or more continuous years, and who have completed at least one semester or 12 hours with a GPA of 2.0 or better, beginning with the semester of readmission, may choose to have none of their previous University course work counted toward graduation and in the computation of their GPAs. Enrollment for a semester, when terminated by a withdrawal before completion of the semester (grades all Ws), in the two years preceding readmission is not an interruption. Under this circumstance, a student cannot invoke the academic bankruptcy rule.

In addition, the dean of the student’s college may permit such a readmitted student who has elected not to count past work to receive credit for selected courses without including those grades in the computation of the student’s GPA (cumulate or otherwise).

Part-time as well as full-time students can take advantage of the academic bankruptcy rule. Students need not have been originally suspended from the University to qualify for this option.

In calculating the 2.0 GPA, a student must have taken all of the 12 hours necessary to apply for bankruptcy for a letter grade. Course numbers ending with a suffix of R, if taken for a letter grade, shall count toward the 12-hour minimum of eligibility for bankruptcy under this rule.

If a student has completed a degree and re-enrolls, he/she may not apply the academic bankruptcy rule to courses taken for the degree already completed.

The Academic Bankruptcy option may be used only once.

Specific Probation and Suspension Policies for Individual Colleges

College of Design

A student may be placed on probation in the College of Design or suspended from the College of Design, but not necessarily the University, according to the College of Design standards that follow.

A student enrolled in the College of Design who is placed on college probation may continue with studies in the college and university subject to general University regulations concerning academic standing. A student enrolled in the College of Design who is suspended from the college may not take classes offered in the College of Design until reinstated. A student who is suspended from the College of Design may take classes outside the college subject to general University regulations concerning academic standing.

A grade of C or higher is required to advance to the next level of studio in the College of Design. A grade below C in an architectural design studio is considered unacceptable for majors in the College of Design. A student who earns a grade below C in a design studio will be placed on College probation. This probation will be removed when the student earns a grade of C or higher in the same studio.

A student will be suspended from the college for:
1. failing to earn a grade of C or higher in a particular architectural design studio for the second time or
2. failing to earn a grade of C or higher in a particular design studio in its first or second offering after the semester in which the student earned a grade below C in that studio, provided the student remains in the University, except that students are not required to enroll in summer sessions or
3. failing to earn a grade of C or higher in any design studio while the student is on University probation for two or more consecutive semesters.

Provision 3 does not apply to first year architectural design students. College of Design rules on probation and suspension may be waived by the Dean of the College of Design under extraordinary circumstances, with notification to the Faculty.

A student who has been suspended from the College of Design may petition the Dean for reinstatement after a period of no less than 12 months.
College of Engineering

Probation and Academic Suspension

The following rules apply to the College of Engineering:

1. No student with a cumulative GPA of less than 2.0 will be enrolled in the College of Engineering. Any student who fails to maintain a cumulative GPA of 2.0 will be dropped from the College of Engineering and will not be readmitted until this GPA is 2.0 or greater. No probationary notice will be given.

2. Any student enrolled in the College of Engineering who earns a GPA of 2.0 or less in any semester will be placed on academic probation.

3. Any student on academic probation who fails to earn a 2.0 semester GPA will be dropped from the College of Engineering and will not be readmitted until he or she has obtained a semester GPA of 2.0 or greater for one semester and the student’s cumulative GPA is 2.0 or greater.

4. Students who are suspended twice from the College of Engineering will not be readmitted.

College of Health Sciences

Probation and Suspension Policy for Professional Program Students

The following standards apply to Health Sciences students in professional programs:

Professional Program Probation

A student will be placed on professional program probation when:

1. the semester grade-point average falls below 2.0 in courses required by the professional program, or
2. a failing grade is earned in any course required by the professional program.

Removal from Professional Program Probation

A student may satisfy the deficiency warranting probation and will be removed from professional program probation when:

1. in the semester following professional program probation, a 2.0 or above semester grade-point average is achieved in courses required by the professional program, and
2. a passing grade is earned in any previously failed courses required by the professional program.

Professional Program Suspension

A student will be suspended from the professional program when:

1. the semester grade-point average falls below 2.0 in courses required by the professional program, or
2. a course required by the professional program is failed a second time, or
3. two courses required by the professional program are failed, unless alternative action is recommended by the Program Director and approved by the Dean of the College of Health Sciences.

Clinical Laboratory Sciences

The following standards apply to undergraduate students in the Clinical Laboratory Science Professional Program (CLS):

Student Progress

Students admitted to the Clinical Laboratory Sciences (CLS) program may advance into the senior year and/or clinical rotation of the CLS program of study on the condition that each has

1. at least a grade-point average of 2.0 on all course work; and
2. has earned a minimum grade of C (2.0) in every course with the CLS prefix.

Undergraduate Professional Program Probation

Regardless of academic standing in the University, a student shall be placed on probation where the student:

1. earns a semester GPA less than 2.0 in all courses required by the CLS program, or
2. earns a grade less than C (2.0) for any course having the CLS prefix.

Removal from Undergraduate Professional Program Probation

A student will be removed from probation when:

1. in the semester following probation, the student earns a semester GPA of at least 2.0 in courses required by the CLS program, and
2. the student earns at least a grade of C (2.0) in any course with a CLS prefix in which previously the student earned a grade below C.

Undergraduate Professional Program Suspension

A student shall be suspended when the student:

1. earns less than a semester GPA of 2.0 in courses required by the CLS program at the end of the first probationary period or in any subsequent semester, or
2. earns less than a C in a course with a CLS prefix for the second time, or
3. earns less than a C in any two courses required in the CLS Program.

Removal from Undergraduate Professional Program Suspension

A student may be reinstated into the CLS program when the student meets the requirements for readmission as determined by the CLS Admissions and Progression Committee. These requirements will be communicated to the student at the time of suspension.

The Graduate School

When graduate students have completed 12 or more semester hours of graduate course work with an average of less than 3.0, they will be placed on academic probation. Students will have one semester to remove the scholastic probation by attaining a cumulative 3.0 average in graduate course work. If the probation is not removed, the student will be dismissed from The Graduate School.

A student who has been dismissed from The Graduate School for these reasons may reapply for admission to The Graduate School after two semesters or one semester and the eight-week summer term.

Exceptions to this policy can be made only by the Graduate Dean.

With the approval of the Graduate Dean, a student may repeat a graduate course and count only the second grade as part of the graduate grade-point average. This action will be initiated by petition of the Director of Graduate Studies and may be done only once in a particular degree program or in post-baccalaureate status.

PROFESSIONAL COLLEGES

NOTE: All students in the professional colleges are subject to the rights, rules and regulations governing University of Kentucky students in all matters not specifically covered in the these rules.

College of Dentistry

The following academic disciplinary policies for students in the professional dental educational program are initiated upon unsatisfactory academic performance.

Academic Probation

Placement on Probation. A student will be placed on probation if he or she has:

a. a grade-point average (GPA) for the academic year less than 2.75;
b. received a failing grade (E or F); or,
c. failed any section of either Part 1 or Part 2 of the National Dental Board Examination.
Terms of Probation. The terms of probation will be established by the Academic Performance Committee (APC). The duration of probation will be at least one semester. Passing a course that has been failed is a condition of all probations. Additional terms of probation may be established by the APC. Students on probation may be ineligible for certain curricular or extracurricular college activities.

If a student has failed the National Dental Board Examination, taking the examination the next time it is offered and passing it shall be among the terms of probation. The terms shall also include required activities to help the student prepare to pass the examination.

Removal from Probation. A student will be removed from probation by the Academic Performance Committee when he or she has at least a cumulative 2.75 GPA, has at least a 2.75 GPA in the current academic year, has passed any failed course, and has satisfied the terms of probation in the judgment of the Academic Performance Committee.

Academic Suspension

Placement on Academic Suspension. The Academic Performance Committee (APC) shall recommend to the Dean that a student be suspended if two conditions exist. The first condition is that the student has:

a. received two or more failing (E or F) grades;
b. received a failing grade (E or F) while on probation;
c. failed to meet the terms of probation; or,
d. after the second year of the curriculum, achieved a cumulative GPA of less than 2.75.

The second condition is that, based on the available evidence, the APC has determined that the student is not academically capable of completing the curriculum after receiving counseling and/or completing work outside the College. The committee’s recommendation shall include a description of any circumstances the Dean should consider in reaching a decision. It shall also include suggestions on what the student needs to accomplish to be considered for reinstatement.

Second Failure of Any Section of Part 1 of the National Dental Board Examination. If a student fails the National Dental Board Examination a second time, the APC shall recommend to the Dean that the student be suspended. The APC recommendation will include a description of any circumstances the Dean should consider in reaching a decision. It shall also include suggestions on what the student needs to accomplish to be considered for reinstatement.

Review. A student subject to suspension may ask the Dean for a review. Review procedures shall be determined by the Dean.

Reinstatement Following Suspension. A suspended student may not be reinstated before one semester has passed from the date of suspension. When the student demonstrates that he or she can perform at the level required to graduate from the College, the Dean may reinstate him or her. A reinstated student will be placed on probation, subject to terms recommended by the APC and approved by the Dean.

A student who has been suspended because of a second failure of any section of Part 1 of the National Dental Board Examination shall not be readmitted unless she or he takes and passes the examination.

Dismissal

Placement in Dismissal Status. The APC shall recommend to the Dean that a student be dismissed if two conditions exist. The first condition is that the student:

a. received two or more failing (E or F) grades;
b. received a failing grade (E or F) while on probation;
c. failed to meet the terms of probation; or,
d. after the second year of the curriculum, achieved a cumulative GPA of less than 2.75.

The second condition is that, based on the available evidence, the APC has determined that the student is not academically capable of completing the curriculum or is otherwise unsuitable for dentistry for reasons that include, but are not limited to: unacceptable personal hygiene, the inability to establish rapport with patients, the inability to work effectively with other health care team members, undependability, or lack of integrity, initiative or interest. The APC recommendation shall include a description of any circumstances the Dean should consider in reaching a decision.

Previously Suspended Students. If a student is subject to suspension and has been previously suspended, the APC shall recommend that she or he be dismissed.

Review. A student subject to dismissal may ask the Dean for a review. Review procedures shall be determined by the Dean.

Reinstatement Following Dismissal. The dismissed student shall not be reinstated.

Promotion

Students will be promoted when they have successfully completed all courses in an academic year.

Methods and Procedures. Promotion of first, second or third year students:

a. All courses in an academic year must be completed with a grade of C or higher (or P, in the case of pass/fail courses) before promotion.
b. Promotion shall usually occur no later than 15 working days after the last day of scheduled classes in each academic year.
c. If a lack of resources or facilities at the University prevents a student from being able to complete a basic science course requirement prior to the beginning of the next academic year, permission may be granted by the APC, in consultation with the Instructor of Record, to complete an equivalent course either at the University or another accredited institution at a prescribed level of performance.

Graduation

A student shall be eligible for graduation when passing all courses and meeting all of these applicable requirements:

a. a student has at least a 2.75 cumulative GPA;
b. a student has passed Parts 1 and 2 of the National Dental Board Examination;
c. a student has taken and passed a clinical mock board examination;
d. advanced standing students must complete the curriculum within one year following the time period agreed to at admission;
e. all terms of probation have been satisfied; and,
f. all patient responsibilities and other obligations to the College of Dentistry or the University have been satisfied.

College of Law

1. All students in the College of Law must maintain a satisfactory cumulative GPA or be dropped from the college for poor scholarship. Any student who earns a GPA below 1.5 for his or her first semester of law study may be suspended by the Dean on recommendation of the Law Faculty Academic Status Committee for poor scholarship. Any student who fails to earn a 2.0 cumulative grade-point average at the end of the first two semesters will automatically be suspended for poor scholarship. In addition, any student whose cumulative GPA falls below a 2.0 at the end of any subsequent semester will also be suspended from the college.

2. Any student who earns a grade of E in a required course must reregister for the course and complete all its requirements thereof. When such a required course is retaken or when a student elects to repeat an elective course in which the student has earned a failing grade, both the initial and subsequent grade will be reflected on the student’s record and counted in the computation of class standing, subject to readmission standards below.

3. Any student dropped for poor scholarship may petition the Law Faculty Academic Status Committee for re-admission. A recommendation to the Dean for readmission is within the discretion of the Academic Status Committee; however, in most cases, the
following policies will guide the Committee: a student suspended after the first semester will be required to petition the full Law Faculty for readmission; in the case of students suspended at the end of the second semester, a student with a cumulative GPA of 1.90 and above will normally be readmitted, a student with a cumulative GPA of 1.70 to 1.89 may be readmitted but will be carefully scrutinized, and a student with a cumulative GPA below 1.70 will normally not be readmitted; any student dropped at the end of the third semester or thereafter will be subject to case-by-case analysis.

4. Any student who is readmitted after being dropped at the end of the second semester and who fails to raise his or her cumulative GPA to 2.0 by the end of the third semester will be readmitted again at that time only if he or she has made material progress toward raising his or her cumulative GPA to 2.0. Material progress at a minimum shall mean obtaining a 2.0 GPA for the semester. Moreover, such a student must raise his or her cumulative GPA to 2.0 by the end of the fourth semester. In addition to the foregoing academic standards for readmission, the Academic Progress Committee may impose additional academic standards in individual cases, and in any case may impose other reasonable conditions of readmission including, but not limited to, limitation of outside work, specification of schedule of study (including specification of particular courses and limitation of hours), and the limitation of extracurricular activities. The Academic Progress Committee with the approval of the full Law Faculty may also require the repetition of courses either with or without substitution of the grades earned in the courses retaken. Failure to comply with the requirements and conditions of readmission will be suspended again from the College of Law, in which case he or she will not be readmitted without approval of the University Senate Council upon the recommendation of the Dean following action by the full Law Faculty. Any student aggrieved at any time by recommendation of the Academic Status Committee may petition the full Law Faculty for review.

5. A student who is required by the Academic Status Committee to repeat 14 or more hours of the freshman curriculum in his or her third and fourth semester will be considered as enrolled in his or her first and second semesters.

6. A student who has once been suspended for poor scholarship and who fails to have a 2.0 cumulative GPA at the end of the semester or summer session in which he or she completes the 90th hour of course work will not be allowed to graduate from the College of Law. Such student will not be allowed to enroll in additional hours of course work in an attempt to achieve a 2.0 cumulative GPA.

Withdrawal and Readmission

1. First-year students are expected to complete their first year of law study without interruption. If a student withdraws from the college and University during his or her first year of law study, readmission is not automatic. If a student withdraws during the first semester of law study, application for readmission will be referred to the Admissions Committee; if a first-year student withdraws during the second semester, application for readmission will be referred to the Academic Status Committee; provided that in either of the above withdrawal situations, the Dean’s designee may grant a special leave of absence for the balance of the academic year for reasons relating to extended illness or equivalent distress.

2. After completion of all required first-year courses, a student who withdraws from the College of Law and the University is subject to the rules stated herein regarding readmission after a leave of absence and grades for students who withdraw. To officially withdraw from the College of Law, a student must obtain from Registrar’s Office a withdrawal card; this card must be signed by the Dean of the College of Law or the Dean’s designee. If a student plans to complete a semester, but not reenroll for the subsequent semester, he or she must give the Dean’s designate written notice of such intention.

3. If a student withdraws from the college and University or does not continue enrollment and has complied with paragraph 2 of this rule, the student will routinely be readmitted to the college provided that the student is in good standing and the absence was not longer than two semesters plus one summer term. No student will be readmitted pursuant to this paragraph more than one time.

4. A student who intends to remain away from the college for more than 2 semesters plus one summer term must request permission for a Leave of Absence. These requests are not routinely granted and will be referred to the Academic Status Committee for recommendation to the Dean.

5. Readmission for students who are not entitled to readmission pursuant to paragraphs 1-4 of this rule is not automatic. Applications for such readmission will be referred to the Academic Status Committee for a recommendation to the Dean. The Academic Status Committee may consider all relevant facts and circumstances, including the length of time out of the college and reasons for the absence. The Academic Status Committee and Dean will normally not approve readmission for any student who has been away from the college for six regular semesters. Reasonable conditions, including the repetition of courses for no credit, may be imposed if readmission is approved.

6. A second-year student, a third-year student, or a first-year student with special permission of the Dean’s designee may withdraw from any course or seminar within the first half of a semester or summer session. To withdraw from a course or seminar within the first half of a semester or summer session, the student must submit a completed course withdrawal card to the Dean’s designee. A student may withdraw from a course or seminar during the last half of a semester or summer session only on a petition certifying reasons relating to extended illness or equivalent distress. This petition must be approved by the instructor and the Dean’s designate.

Limitation on Pass/fail Units Creditable for College of Law Students

1. No more than 6 hours of graduate courses outside of the College of Law, graded on a pass/fail basis, shall be counted.

2. No more than 6 hours of courses in the law school that are offered only on a pass/fail basis shall be counted.

3. No more than 9 of the total number of pass/fail credit hours, whether earned under 1. (above) or under 2. (above) shall be counted.

4. No more than one graduate course outside the College of Law, graded on a pass/fail basis, may be credited in any one semester.

Students in joint degree programs may only take up to six pass/fail course credit hours in the College of Law courses and may take no courses outside the College of Law for credit toward the J.D. other than pursuant to the applicable joint degree program.

College of Pharmacy

Academic Performance, Progress and Guidelines

The Academic Performance Committees (APC) are charged with monitoring students’ progress through the curriculum. The Committees regularly review (during and at the end of each semester) the performance of each student based on course grades and on written comments on each student’s performance, both of which are shared with the student and are part of the student record. The APC for students in a particular year will consist of the course directors and laboratory instructors for that academic year plus a standing core of faculty. The APC will recommend
an action appropriate to the particular student standing and record, i.e.,
proceed to the next series of courses, promotion to the next year,
graduation, probation, probation with remedial action, removal from
prohibition, academic leave, suspension, dismissal, or other action.
Recommendations for graduation are made through the dean for approval
by the Faculty. All other recommendations are to the Dean. Students
must be promoted to subsequent year standing by action of the APC.
Promotion is not automatic, but must be earned based on appropriate
performance and satisfactory completion of course work. The APC may
also recommend other remedies including but not limited to adjustment
of academic load, repetition of curriculum segments and participation in
counseling sessions. Although the APC considers the overall record of
the student in making decisions, the APC will rely heavily on the
following:

All students must maintain a minimum Pharmacy GPA of 2.0 and earn
a minimum grade of C in each course taken during the time they are
students in the College of Pharmacy. This includes all course work,
including PHR and non-PHR electives, which comprise the first through
fourth professional years of the Pharmacy program.

Further:
1. Any student with a GPA less than 2.0 in a single semester or with
a cumulative GPA less than 2.0 will be placed on probation or
may be suspended from the College.
2. Students who fail to earn a minimum of C in any one course may
be placed on probation. The APC will determine the level of
remediation required.
3. Students who fail to earn a minimum grade of C in two courses
will be placed on probation and remediation may be required. The
APC will determine the level of remediation required.
4. Students who fail to earn a minimum of C in three or more courses
will be suspended from the College of Pharmacy, regardless of
GPA.
5. A failure in a pass/fail course will be considered a grade less than
the C.
6. Students who satisfactorily complete the remediation require-
ments for probation will be removed from probation.
7. Students who are on probation and fail to meet the requirements
for remediation or fail to meet the requirements needed to remove
them from probation.
8. Students eligible for probation on a second occasion may be
suspended from the College.

Probation
Students who are on academic probation may not be allowed:
1. To serve as officers or committee members in any campus
organization.
2. To participate in any University extracurricular activities or in
the activities of any University organization if the participation
involves the expenditures of any appreciable amount of time.
3. To be employed by the University.

Students on probation may have a restricted academic schedule as
ddictated by the APC. Students placed on probation must meet the
requirements dictated by the APC before being removed from probation.

Suspension
Students suspended from the college may petition the APC for
reconsideration of their case and for permission to re-take College of
Pharmacy courses to correct their academic deficiencies. That permis-
sion may or may not be granted by the APC. If a student is allowed to
re-take required College of Pharmacy courses, and the academic deficien-
cies have been satisfactorily addressed, these students may re-enter the
College of Pharmacy but will do so on probation status. If the student
is judged after 2 semesters to be performing satisfactorily by the APC
while taking normal academic course loads, their probation status may
be removed by the College Faculty.

Special Considerations
1. Because of the demands of the Doctor of Pharmacy curriculum
upon acceptance to the program of study students are expected
to devote their energies to the academic program. The college
actively discourages employment while courses are in session
and cannot take outside employment or activities into account
when scheduling classes, examinations, reviews, field trips or
individual course functions or special projects.
2. Due to curricular requirements course functions and/or examina-
tions outside the normal Monday through Friday, 8 A.M. to 5 P.M.
business hours time frame will occur.
3. Clinical responsibilities include evening and weekend work.
4. All College of Pharmacy students are subject to the rights, rules
and regulations governing University students in all matters not
specifically covered in College of Pharmacy documents.

All Undergraduate and Professional Colleges
Each student has access to rules that deal with scholastic probation,
academic suspension, and reinstatement through the printed class
schedule, this Bulletin, and Student Rights and Responsibilities.
GRADUATION REQUIREMENTS

To be eligible for any degree, a student must have completed the requirements as approved by the University Senate, except that curriculum substitutions may be made by the college affected if not inconsistent with these rules. Curriculum requirements must include, in addition to specified credits, a specified grade-point average both overall and in the student’s major which may in no case be less than 2.0. Every baccalaureate degree program must include four divisions or components: (1) University Studies, (2) premajor or preprofessional, (3) general college requirements (if any), (4) major or professional, and (5) free electives.

The student must file an application for graduation with the dean of the college from which the degree is to be awarded within 30 days after the beginning of the semester or 15 days in the summer session in which the student expects to complete the work.

Inference Requirement

Each baccalaureate student must satisfy one of the following:

1. Any calculus course, or
2. STA 200 Statistics: A Force In Human Judgment, PLUS
   PHI 120 Introductory Logic, OR
   PHI 320 Symbolic Logic, or
3. the equivalent of one of the above.

University Writing Requirement

The University requires demonstrated competency in writing. The University Writing Requirement is a two-tiered requirement consisting of (1) the First Year Writing Requirement and (2) the Graduation Writing Requirement.

To complete the First Year Writing Requirement, students must complete either:

1. ENG 104 Writing: An Accelerated Foundational Course. Full-time students must enroll in ENG 104 in either the fall or spring semester of their first year. They may drop the course during the first year, but beginning in their third semester, students enrolled in ENG 104 are not allowed to drop the course, and will be required to register for the course each semester until they have completed the First Year Writing Requirement.

2. Score 32 or above on the English component of the ACT; score 700 or above on SAT I Verbal; or score 4 or 5 on the Advance Placement (AP) English Language Exam.

Students who have earned credit for ENG 101 or equivalent, and students with a score of 3 on the AP English Language Exam may select either ENG 102 or ENG 104 (recommended) to complete the First Year Writing Requirement.

The Graduation Writing Requirement establishes the minimum criteria for University of Kentucky undergraduate degrees. Individual majors may have additional writing requirements.

To complete the Graduation Writing Requirement, students must:

• Complete the First Year Writing Requirement;
• Attain sophomore status (30+ hours); and
• Complete an approved course or series of courses in the major, or complete one writing-intensive course from among the following:

   ENG 203 Business Writing
   ENG 230 Introduction to Literature
   ENG 231 Literature and Genre
   ENG 232 Literature and Place
   ENG 233 Literature and Identities
   ENG 234 Introduction to Women’s Literature
   ENG 261 Survey of Western Literature from the Greeks Through the Renaissance
   ENG 262 Survey of Western Literature from 1660 to the Present
   ENG 264 Major Black Writers
   ENG 270 The Old Testament as Literature
   ENG 271 The New Testament as Literature
   ENG 281 Introduction to Film

Any other course on the Semester List of Approved Writing-Intensive Courses, published in the Schedule of Classes.

Students in some programs complete the Graduation Writing Requirement with courses required in the major. Also, some courses are approved to fulfill this requirement on a semester-by-semester basis. Consult with your advisor about courses that may be used to fulfill the Graduation Writing Requirement.

NOTE: Honors Program students satisfy both the First Year Writing Requirement and the Graduation Writing Requirement through that curriculum.

Change in Program Requirements

When requirements for an undergraduate degree program are changed after a student has enrolled in it, the student has the option of fulfilling either the old or the new requirements.

In fulfilling the old requirements, if a student finds that necessary courses have been eliminated or substantially revised, he or she may substitute other courses with the approval of the dean of the college. In this eventuality, however, the student shall not be forced to comply with the new requirements.

However, if a student interrupts work in the program or the University for more than two semesters, then the dean of the college shall determine which requirements the student shall fulfill.

If the curriculum revision is required by an external accreditation or certification body, and this body submits a written statement to the University that the accreditation of a program or certification of its graduates is in jeopardy unless students fulfill the new requirements, the option of fulfilling the old requirements shall not apply.

When The Graduate School or degree program requirements are changed after a student has begun a course of study, the student shall have the option of fulfilling either the old or new requirements.

If the student elects to fulfill the old requirements but finds that necessary resources (e.g., courses, instruction in particular skills) are no longer available, the student may make reasonable substitutes with the approval of The Graduate School Dean upon recommendation of the Director of Graduate Studies.

In the event that a student interrupts work on a graduate degree (i.e., is not enrolled) for one calendar year or more, The Graduate School Dean shall determine, upon recommendation of the Director of Graduate Studies, whether the old requirements or the new requirements shall apply. In the event a student has not completed the requirements for the graduate degree five years after the effective date of a change in degree requirements, the new requirements shall apply unless determined otherwise by The Graduate School Dean.
The colleges offering professional degrees (Law, Medicine, Dentistry, Pharmacy) reserve the right to change curriculum requirements provided the program change has gone through the University’s approval process. Any such change in curriculum, however, shall not result in a longer tenure for students enrolled in the program who are making satisfactory academic progress.

**Residence Requirement**

Residence – a requirement for a degree which specifies the minimum period during which a student must be registered on the main campus – is intended to provide an adequate contact with the University and its faculty for each student who is awarded a degree.

For an undergraduate degree, regardless of the length of time the student has attended the University, a minimum of 30 of the last 36 credits presented for the degree must be taken from the University. Requests for waiver of this requirement for veterans or other students must be approved by the dean of the student’s college.

Courses taken under the Study Abroad and National Exchange Student programs (and for which students pay their tuition to the University of Kentucky) are considered as courses taken at UK for purposes of both the residency requirement and for graduates to be conferred commencement honors at the time of award of their degrees.

**Credit by Correspondence and Examination**

No more than 30 credit hours of the total required for an undergraduate degree may be gained by correspondence. No more than one-third of the requirements for a major may be gained by correspondence.

No credit will be conferred in The Graduate School or in the professional colleges for courses done by correspondence.

No more than half of the credit toward an undergraduate degree may be earned by any combination of CLEP Examinations, PEP Examinations, PONSI courses, Special Departmental Examinations, and Advanced Placement Examinations.

**Commencement Honors**

Students who attain a grade-point average of 3.8 or higher for at least three years (90 hours) of work at the University (excluding correspondence study) shall be graduated “Summa Cum Laude.”

Students who attain a grade-point average of 3.6 or higher for at least three years (90 hours) of work at the University (excluding correspondence study) shall be graduated “Magna Cum Laude.”

Students who attain a grade-point average of 3.4 or higher for at least three years (90 hours) of work at the University (excluding correspondence study) shall be graduated “Cum Laude.”

Students with a minimum of two (60 hours) but less than three years (90 hours) of work at the University will receive the appropriate commencement honors if they attain a grade-point average of 0.2 greater than those specified for three years of residence work.

The bachelor’s degree with honors in a student’s major or a degree with honors from a professional college will be conferred upon a student whom the faculty of the student’s department, or college, in the case of a professional college, and the dean of the student’s college recommend receive the degree. A student may be required to complete work in addition to that required for the bachelor’s or professional degree to receive a degree with honors.

The degree with honors from a professional college is based solely upon work done in the professional college.

All students in the Honors program of the University who do not have a grade-point standing of 3.5 or better but are in the top 10 percent of their college’s class are eligible to graduate in the Honors program if they satisfy the other requirements and have approval of the Honors Program Director.

Work done in the Kentucky Community and Technical College System shall not be counted as work at the University of Kentucky in calculating the grade-point average for honors.

**A Double Major**

An undergraduate student earns a double major when he or she completes all university, college, and departmental requirements in one department—the Primary Major—and all departmental requirements in a second department—the Secondary Major. If there is a generic relationship, work in the Primary Major may be applicable to the Secondary Major. The student must indicate the double major to the Registrar and to the student records office in his or her college(s). The student must have an advisor in each major. The student who completes the requirements for a double major receives a degree from the college of his or her Primary Major and has the successful completion of the Secondary Major entered on his or her transcript. A Secondary Major may be completed after the degree for the Primary Major has been awarded. A double major does not result in an additional degree.

Concurrent enrollment for degree purposes in more than one graduate program is permitted only with the approval of the student’s graduate advisor(s), Directors of Graduate Studies in the programs, and the Dean of The Graduate School.

Subsequent to the receipt of a doctoral degree, a student is not eligible to receive a master’s degree based on the work which led to the doctorate.

**A Second Bachelor’s Degree**

A student is eligible to qualify for a second bachelor’s degree in a different major. The student must complete all university, college, and departmental requirements for both degrees. Courses taken towards fulfilling one degree may also count towards fulfilling parallel requirements in the other, but the total credits in the two degree programs must be at least 144 hours. The student may elect to receive the degrees simultaneously, if college and departmental requirements can be met simultaneously.

**A Second Master’s Degree**

A student may receive two master’s degrees. However, simultaneous enrollment in two or more programs and the granting of two or more master’s degrees at the same time is not permitted, unless approved by the student’s advisors and the Directors of Graduate Studies in the programs.

**The University Scholars Program**

The University Scholars program enables gifted and highly motivated students to integrate their undergraduate and graduate or professional courses of study into a single, continuous program leading to both a baccalaureate and master’s degree. The admissions requirements for the University Scholars program and the curricular requirements are outlined in the Special Academic Programs section of this Bulletin.

**Academic Minors**

Many departments have designed academic minors for the convenience of undergraduate students. A minor is a structured group of courses that leads to considerable knowledge and understanding of a subject, although with less depth than a major. Some employers consider minors desirable, and the corresponding major requirements at the University may stipulate a minor. Some students choose to complement their major program with a minor in a related field or even in an entirely different field of interest. The minors that are available are described with the departmental listings and major programs in this Bulletin. Students interested in pursuing an academic minor should contact their college dean’s office and the department responsible for the minor program for guidance and advising. Please note that undergraduate students can only complete a minor in addition to and as a complement to a major. The University does not award stand-alone minors.
The College of Arts and Sciences offers students the opportunity to pursue studies in programs that are administered jointly by several departments within the College. Students may choose from several majors and/or minors or create a self-designed program that fulfills their individual educational requirements.

**African American Studies**

The African American Studies program seeks to promote the interest and knowledge of the African diaspora experience through quality teaching and research. Multidisciplinary in scope, African American Studies offers a selection of courses in English, history, geography, political science, sociology, philosophy, religion, and language. Courses affiliated with the Program are listed each fall and spring semester in the University Schedule of Classes under the AAS prefix.

**African American Studies Minor**

By completing 21 hours of course work students can earn a minor in African American Studies. This minor offers a cultural, historical, and literary base that can strengthen any major in the Humanities or the Social Sciences. For additional information on the minor, see the listing under the College of Arts and Sciences on pages 141-142.

Visit the African American Studies Web site at: www.uky.edu/AS/AASRP/.

**American Studies**

American studies draws together diverse disciplines to examine the historical and contemporary forms and issues of our national life. The program in American Studies takes as its field of study any peoples, cultural expressions and social institutions, however or whenever identified as “American.” Program curricula link faculty, courses, and students across a range of humanities, arts, and social science departments.

**American Studies Minor**

The minor centers on two interdisciplinary seminars on selected topics in American studies. Students electing the minor are also encouraged to take a range of elective courses to complement their major. The minor in American Studies prepares students for further graduate or professional training, or for work in education, government, or business. For additional information on the minor, see the listing under the College of Arts and Sciences on page 142.

Visit the American Studies Web site at: www.uky.edu/AS/AmericanCulture/.

**Appalachian Studies**

The Appalachian Studies minor offers students with serious interests in Appalachian regional studies an opportunity to pursue a minor concentration to complement a major in one of the University’s professional or liberal arts programs. This interdisciplinary program enables students to comprehend more fully the history, social structure, and culture of the region—its people, its problems, and its future. The Appalachian Studies Program Director serves as faculty advisor to undergraduate minors and as faculty sponsor of the Appalachian Student Council, an organization for students with an interest in or ties to the Appalachian region.

Faculty and students interested in Appalachian Studies work in cooperation with the Appalachian Center, which was created in 1977, to fulfill the University’s research and service missions in this region. For additional information on the minor, see the listing under the College of Arts and Sciences on page 142.

For more information, contact Dr. Ron Pen, (859) 257-8183; or e-mail: rapen01@uky.edu. Visit the Appalachian Studies Web site at: www.research.uky.edu/appalcenter/.

**Cognitive Science**

Cognitive Science is an interdisciplinary field of study focusing on the mind as an intelligent (information-processing) system. Arising from Noam Chomsky’s seminal criticisms of Behaviorism in the 1950s, Cognitive Science has come to include such disparate disciplines as linguistics, computer science (artificial intelligence, knowledge representation, theory of computation and computational complexity, algorithms), psychology (concepts; memory; reasoning; developmental and cognitive psychology), biology (evolutionary theory, neurobiology), anatomy, neuroscience, the behavioral sciences, and philosophy (language, mind, and logic). The Cognitive Science program at UK offers an undergraduate minor, enabling students to study the mind in an interdisciplinary way. For additional information about the minor, see the listing under the College of Arts and Sciences on page 142.

For more information, visit the Cognitive Science Web site at: www.as.uky.edu/interProg/CogSci/; or contact Professor S. Goldberg, 1427 Patterson Office Tower, Department of Philosophy, (859) 257-6540, scgold@uky.edu.

**Committee on Social Theory**

Social theory considers the full range of our social practices, not only the taken-for-grantedness of our social institutions and cultural conditions but also the hidden aspects of our daily lives. Social theory is, as sociologist Charles Lemert puts it, a basic survival skill. It embraces substantive questions about the composition, structure and development of social phenomena, as well as the epistemological conditions that inform our ability to comprehend them. Today, it is one of the most significant and fastest-growing concerns in the humanities and the social sciences. It brings together scholars from a multitude of disciplines in investigations of such topics as the social construction of individuals in contemporary and historical contexts, the nature of the political, the structure of agency, the cultural and economic processes associated with globalization, and the constitution of public space and civil society.

Because many social theoretical issues refuse containment within extant disciplinary demarcations, they are best studied within a multidisciplinary framework. The Committee on Social Theory formed in 1989 to facilitate such theoretical teaching and research projects across disciplinary and college boundaries at the University of Kentucky. The program fosters practical communication through a range of pedagogical and research projects between the humanities and social sciences. The Committee on Social Theory’s events assist faculty and students in testing their own disciplinary understandings and enhancing their own empirical and archival research by building transdisciplinary dialogues. Today, the Committee includes some 50 faculty associates, spanning fourteen departments and five schools, and offers students and faculty an innovative opportunity to pursue social thought in a bracingly interdisciplinary dialogue. Its activities form a unique and exciting environment where students and faculty study the expanding and increasingly important field of social theory and cultural studies.

Visit the Committee on Social Theory Web site at: www.uky.edu/AS/SocTheo/.

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Visit the Committee on Social Theory Web site at: www.uky.edu/AS/SocTheo/.
Environmental Studies

Environmental considerations permeate almost every facet of modern life, and concern for “the environment” is practically universal as we approach the twenty-first century. The minor in Environmental Studies is designed to provide students with the opportunity to become conversant in a range of environmental topics, whether as private citizens in their daily lives or as professional members of corporate, government, legal, medical, and educational circles.

Environmental Studies Minor

The minor draws on topics and perspectives from the natural and physical sciences, the social sciences, and the humanities to underscore the interdisciplinary nature of environmental issues and problems. Students taking the minor are encouraged to integrate the program with their major study focus in order to gain a competitive advantage in grappling with environmental topics. For additional information on the minor, see the listing under the College of Arts and Sciences on page 143.

Visit the Environmental Studies Web site at: http://sweb.uky.edu/~calevio00/environmental/index2.htm.

Gender and Women’s Studies

The Gender and Women’s Studies program at the University of Kentucky investigates the cultures and contributions of women worldwide from feminist/womanist perspectives. The purpose of the program is to develop and coordinate an interdisciplinary curriculum in Gender and Women’s Studies at the undergraduate and graduate levels; support critical research, teaching and public programming in Gender and Women’s Studies that take into account various beliefs about gender, race, class, and sexuality; and foster interdisciplinary collaboration. The Gender and Women’s Studies Program aims to serve the University and the Commonwealth through promotion of equity and commitment to excellence.

Gender and Women’s Studies Minor

The Gender and Women’s Studies program offers an undergraduate minor that includes courses in Gender and Women’s Studies and related courses in a variety of departments. For additional information on the minor, see the listing under the College of Arts and Sciences on page 143.

Topical Major in Gender and Women’s Studies

The Gender and Women’s Studies program assists students who wish to develop undergraduate majors in Gender and Women’s Studies under the Topical Major Program. For additional information, see the listing on topical majors under the College of Arts and Sciences on page 105.

Gender and Women’s Studies Graduate Certificate

The Gender and Women’s Studies program offers a 13-hour graduate certificate. For information, please see the Gender and Women’s Studies Web site or the Graduate School Bulletin.

Visit the Gender and Women’s Studies program on their Web site at: www.uky.edu/AS/WomenStudies/.

Indian Culture

The minor in Indian Culture is designed to allow students to develop a more profound understanding of Indian culture. The curriculum is strongly interdisciplinary, encompassing courses in linguistics, anthropology, English, geography, mathematics, philosophy, political science, and sociology.

Students completing the minor will possess (1) an ability to read Sanskrit (vital for comprehending Indian culture); (2) a well-rounded, multidisciplinary understanding of the culture and geography of India and of contemporary Indian society and politics; and (3) a high degree of preparedness to pursue careers in business or teaching that require knowledge of Indian society and its traditions. For additional information on the minor, see the listing under the College of Arts and Sciences on page 143. For further information, contact Professor Gregory Stump
Interdisciplinary Programs

Islamic Studies

The interdisciplinary minor in Islamic Studies will provide the opportunity to study the culture, language, literature, religion, history and philosophy of Muslim peoples throughout the world from antiquity to the present. Students will acquire a rounded understanding of Islamic culture, the ability to interpret information and news from the Middle East and elsewhere in an independent way, with understanding of the issues from the perspective of the Muslim countries, and will be prepared to pursue careers that require a knowledge of Islamic civilization. For additional information on the minor, see the listing under the College of Arts and Sciences on pages 143-144.

Japan Studies

The Japan Studies program supports a community of Japan area specialists who teach and pursue research in the University’s various departments (geography, history, English, political science, Russian and Eastern studies, sociology) and professional schools (architecture and communications). In addition to teaching and research responsibilities, the faculty lecture to outside groups, write extensively for both scholarly journals and popular media, author books on Japan, and participate in national professional associations. The program responds to and fosters growing American interest (particularly in Kentucky) in Japan.

The emphasis of the program is on social sciences and humanities, including Japanese cultural geography, history, languages and literature, films, society, and environment. In this sense the Japanese Studies program at the University of Kentucky is unique and has been well received nationally as well as by our students as reflected in growing enrollment figures.

Japan Studies Minor

The Japan Studies minor complements existing majors and prepares students with the skills that are required to work with Japan given its integral place in international business. Students will also become well-versed in the culture and geography of Japan, its history, arts, and environment. This background will prepare students for Japan-related careers in the United States and abroad. For additional information on the minor, see the listing under the College of Arts and Sciences on page 144.

Joint Major in Foreign Language and International Economics

The University of Kentucky offers a joint major that combines foreign language proficiency with training in economics to prepare students for employment in enterprises doing business internationally. The program prepares students to succeed after graduation by combining high-quality classroom instruction with practical in-country learning opportunities. The program provides preparation for participation in internships and exchange programs and builds foundation for a future career in international business, or degrees in international law, an MBA in international business, or the Patterson School of International Diplomacy. For additional information on the major, see the listing under the College of Arts and Sciences on pages 116-117.

Topical Major in Japan Studies

The topical major was created for students whose interests cut across traditional departmental and college lines and who want to be on the “cutting edge” of today’s job market. It allows students to satisfy a niche that could not be fulfilled in any of the college’s traditional departments. For additional information, see the listing on topical majors under the College of Arts and Sciences on page 105.

Visit the Japan Studies Web site at: www.as.uky.edu/Japan/.

Judaic Studies

The interdisciplinary minor in Judaic Studies at the University of Kentucky provides students with the opportunity to become acquainted with the culture, language, literature, religion, history, and philosophy of the Jewish people from antiquity to the present. For additional information on the minor, see the listing under the College of Arts and Sciences on page 144.

Visit the Judaic Studies Web site at: www.uky.edu/AS/JudaicStudies/.

Latin American Studies

The Latin American Studies program provides an integrated, interdisciplinary approach to the study of a geographic and cultural region. The core course (LAS 201), the senior course in directed research, and careful faculty supervision are essential components of the degree program. Students choose, however, from a variety of courses in anthropology, economics, geography, history, political science, the Spanish language and Spanish American literature. For additional information on Latin American Studies, see the listing under the College of Arts and Sciences on pages 124-125.

Visit the Latin American Studies Web site at: www.as.uky.edu/interprog/las/.

Linguistics

Linguistics is an interdisciplinary program combining resources from English, anthropology, psychology, philosophy, computer science, and the foreign languages, to develop an understanding of the nature and implications of human language. The Linguistics program provides solid foundations in phonological and grammatical analysis, as well as opportunities to investigate the social, cultural, psychological, and physical aspects of language use.

Linguistics Major

The Linguistics program offers an undergraduate major that includes courses in linguistics and related courses cross-listed with a variety of departments. Linguistics students frequently graduate with a double major in linguistics and one of the related departments, such as the foreign languages. For additional information on the major, see the listing under the College of Arts and Sciences on pages 125-126.

Linguistics Minor

The Linguistics program also offers an undergraduate minor that includes 18 hours of course work in linguistics and related courses in a variety of departments. As part of the linguistics major or minor, students may elect to complete the sequence of courses focusing on Teaching English as a Second language; this track within linguistics can open up a variety of avenues for English teaching positions in the U.S. and abroad. For additional information on the minor, see the listing under the College of Arts and Sciences on page 126.

Visit the Linguistics Program Web site at: www.as.uky.edu/linguistics/.
A university education truly worth the name must do more than prepare students for a job or a career. It must broaden their understanding of the world, of themselves, of their role in society, and of the ideals and aspirations which have motivated human thought and action throughout the ages. It must help individuals use their acquired knowledge to grow in maturity as they take responsibility for their lives by establishing their own individual goals and developing the habit of lifelong learning.

The broad goals of the University of Kentucky’s general education program, called University Studies, make for mature, open, flexible individuals who can adapt to changing situations, learn new skills, and meet unforeseen challenges in their careers. At the same time, University Studies will help students to develop their own sense of values, to pursue their own goals, and to contribute to the political, moral, social, and cultural enrichment of society.

The University Studies Program is separated into ten areas of study: math, foreign language, inference-logic, written communication, oral communication, natural sciences, social sciences, humanities, cross-cultural, and electives.

Students are encouraged to work closely with their advisors in selecting courses that are appropriate for their own needs and aspirations.

USP CREDIT FOR STUDENTS IN THE HONORS PROGRAM: Honors students satisfy the Written Communication – First Year Writing Requirement by passing the first two colloquia in their chosen track. Honors students satisfy the Graduation Writing Requirement by passing the third colloquia in their chosen track. Depending on the track and the course, Honors colloquia may also satisfy additional USP requirements in inference-logic, natural sciences, social sciences, humanities, and USP electives. For more information on using Honors Program course work to satisfy University Studies Program requirements, contact the Honors Program at (859) 257-3111.

NOTE: A course taken to satisfy a requirement in one area of University Studies cannot be used to satisfy a requirement in another, with the exception that one calculus course will satisfy both I. Math and III. Inference-Logic.

I. MATH

Upon completion of the math requirement, students will be able to: (1) demonstrate skills in use and interpretation of definitions, notations, and formulas that employ words and numbers to represent and solve problems; and (2) use and interpret principles of mathematical reasoning.

To fulfill the math requirement, complete one of the following:

- A score of 26 or above on the mathematics section of the ACT, a score of 600 or above on the mathematics section of the SAT, bypass examination, or
- MA 109 College Algebra, or
- MA 110 Analytic Geometry and Trigonometry, or
- MA 111 Introduction to Contemporary Mathematics, or
- any calculus course.

II. FOREIGN LANGUAGE

Upon completion of the foreign language requirement, students will be able to: (1) communicate orally in simple terms using the language; (2) read, write, and translate simple passages in the language; and (3) describe some ways in which language is reflected in the culture in which it is used and also ways in which culture is reflected in its language.

To fulfill the foreign language requirement, complete one of the following:

- Two years of a foreign language in secondary school as indicated on transcripts, or
- any two-semester sequence (at least six hours) in a single foreign language at the college level.

III. INFERENCE-LOGIC (with Statistics or Calculus Options)

Upon completion of the inference-logic requirement, students will be able to: (1) draw reasonable inferences from data, observations, and logical premises; (2) evaluate the quality of an argument or solution; and (3) use principles of formal reasoning to solve problems.

To fulfill the inference-logic requirement, complete one of the following:

- Any calculus course, or
- STA 200 Statistics: A Force in Human Judgment, PLUS
- PHI 120 Introductory Logic, or PHI 320 Symbolic Logic I.

Note: Students must satisfy the math requirement before enrolling in STA 200.
IV. WRITTEN COMMUNICATION

Upon completion of the written communication requirement, students will be able to communicate ideas effectively through written work for various audiences.

To fulfill the University Studies Program written communication requirement, complete the First Year Writing Requirement (4 credit hours).

The University’s writing requirement also has a second component – the Graduation Writing requirement – that is not part of the University Studies Program. See “University Writing Requirement” on page 72 in the Graduation Requirements section of this Bulletin for details.

NOTE: Honors Program students satisfy both the First Year Writing Requirement and the Graduation Writing Requirement through that curriculum.

First Year Writing Requirement
Complete one of the following:

- ENG 104 Writing: An Accelerated Foundational Course*
- Score of 32 or above on the English component of the ACT; score of 700 or above on SAT I Verbal; or score of 4 or 5 on the AP English Language Exam.

*Full-time students must enroll in ENG 104 in either the fall or spring semester of their first year. They may drop the course during the first year, but beginning in their third semester, students enrolled in ENG 104 are not allowed to drop the course, and will be required to register for the course each semester until they have completed the First Year Writing Requirement.

NOTE: Students who have earned credit for ENG 101 or equivalent, and students with a score of 3 on the AP English Language Exam may select either ENG 102 or ENG 104 (recommended) to complete the First Year Writing Requirement. UK no longer offers ENG 101 but will continue to offer ENG 102 as needed.

V. ORAL COMMUNICATION

Suspension of Oral Communication Requirement
Students who enroll at the University of Kentucky for the first time in Fall 2004 through Fall 2009 are not required to complete the Oral Communication Requirement. Students who enrolled for the first time prior to Fall 2004 must complete the Oral Communication Requirement.

This suspension applies only to University Studies Requirements. Many programs are required by their accreditation to have an oral communication component; students in these programs are still required to fulfill that component.

Upon completion of the oral communication requirement, students will be able to communicate ideas effectively through oral communication for various audiences.

To fulfill the oral communication requirement, complete one of the following:

- one of the following courses:
  COM 181 Basic Public Speaking
  COM 252 Introduction to Interpersonal Communication
  COM 281 Communication in Small Groups
  COM 287 Persuasive Speaking
  TA 225 Vocal Production for the Stage I
- bypass examination, or
- an alternate sequence in the student’s major department*

*NOTE: Some colleges or departments have approved an alternate route for satisfying the oral communication requirement. Discuss with your advisor how you should select courses to complete this requirement.
VI. NATURAL SCIENCES (six hours)

Upon completion of the natural sciences requirement — for each course taken — students will be able to: (1) demonstrate knowledge of major theories and phenomena associated with a field or discipline of natural science; (2) demonstrate an understanding of scientific reasoning; and (3) identify the methods and practices of inquiry associated with theoretical advances in a natural science discipline.

To fulfill the natural sciences requirement, complete at least six hours from the following courses:

**Biology**
- BIO 102 Human Ecology
- BIO 103 Basic Ideas of Biology
- BIO 110 Introduction to Human Biology and Health
- BIO 150 Principles of Biology I
- BIO 151 Principles of Biology Laboratory I
- BIO 152 Principles of Biology II
- BIO 153 Principles of Biology Laboratory II
- BIO 300 General Entomology
- ENT 110 Insect Biology
- ENT 300 General Entomology
- PLS 104 Plants, Soils, and People: A Global Perspective

**Chemistry**
- CHE 101 Molecular Science for Citizens
- CHE 104 Introductory General Chemistry
- CHE 105 General College Chemistry I
- CHE 106 Introduction to Inorganic, Organic and Biochemistry
- CHE 107 General College Chemistry II
- CHE 108 Introduction to Inorganic, Organic and Biochemistry Without Laboratory
- CHE 111 Laboratory to Accompany General Chemistry I
- CHE 113 Laboratory to Accompany General Chemistry II
- CHE 115 General Chemistry Laboratory

**Geology**
- GLY 110 Endangered Planet: An Introduction to Environmental Geology
- GLY 120 Sustainable Planet: The Geology of Natural Resources
- GLY 130 Dinosaurs and Disasters
- GLY 150 Earthquakes and Volcanoes
- GLY 160 Geology for Elementary Teachers
- GLY 170 Blue Planet: Introduction to Oceanography
- GLY 210 Habitable Planet: Evolution of the Earth System
- GLY 220 Principles of Physical Geology
- GLY 223 Introduction to Geology in the Rocky Mountains

**Physics and Astronomy**
- AST 191 The Solar System
- AST 192 Stars, Galaxies and the Universe
- PHY 151 Introduction to Physics
- PHY 152 Introduction to Physics
- PHY 170 Black Holes and Time Travel
- PHY 211 General Physics
- PHY 213 General Physics
- PHY 231 General University Physics
- PHY 232 General University Physics
- PHY 241 General University Physics Laboratory
- PHY 242 General University Physics Laboratory

**Physics and Geology**
- PHY 160 Physics and Astronomy for Teachers
- GLY 160 Geology for Elementary Teachers

VII. SOCIAL SCIENCES (two courses in separate disciplines)

Upon completion of the social sciences requirement — for each course taken — students will be able to: (1) demonstrate knowledge of major theories and phenomena associated with two fields or disciplines of social science; (2) demonstrate an understanding of scientific reasoning; and (3) identify the methods and practices of inquiry associated with theoretical advances in a social science discipline.

To fulfill the social sciences requirement, select two courses in separate disciplines from the following courses: Note that AEC 101 is in the Economics category and CLD 102 and GWS 200 are in the Sociology category.

**Anthropology**
- ANT 101 Introduction to Anthropology
- ANT 241 Origins of Old World Civilization
- ANT 242 Origins of New World Civilization

**Communication**
- COM 101 Introduction to Communications

**Economics**
- AEC 101 The Economics of Food and Agriculture
- ECO 101 Contemporary Economic Issues
- ECO 201 Principles of Economics I

**Family Studies**
- FAM 252 Introduction to Family Science
- FAM 253 Human Sexuality: Development, Behavior and Attitudes

**Geography**
- GEO 152 Regional Geography of the World
- GEO 172 Human Geography
- GEO 210 Pollution, Hazards, and Environmental Management
- GEO 222 Cities of the World
- GEO 240 Geography and Gender

**Political Science**
- PS 101 American Government
- PS 210 Introduction to Comparative Politics
- PS 235 World Politics

**Psychology**
- PSY 150 Introduction to Psychology

**Public Health**
- CPH 201 Introduction to Public Health

**Sociology**
- †SOC 101 Introduction to Sociology
- SOC 235 Inequalities in Society
- SOC 335 Sociology of Gender
- †CLD 102 The Dynamics of Rural Social Life
- GWS 200 Introduction to Gender and Women’s Studies in the Social Sciences

†Students may not receive credit for both SOC 101 and CLD 102.
VIII. HUMANITIES  (six hours)

Upon completion of the humanities requirement – for each course taken – students will be able to: (1) demonstrate knowledge of major developments in Western culture, particularly the interrelationships between historical, aesthetic, and literary perspectives; (2) explain how cultural, historical, and intellectual forces are represented in artistic and literary works from the past and present; and (3) identify the methods and practices of inquiry associated with theoretical advances in a humanities discipline.

To fulfill the humanities requirement, complete six hours from the following courses:

<table>
<thead>
<tr>
<th>Architecture</th>
<th>Art</th>
<th>Chinese Culture and Language</th>
<th>Classics</th>
<th>English</th>
<th>French</th>
<th>Gender and Women's Studies</th>
<th>German</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC 212 History and Theory I: 15th-17th Centuries</td>
<td>A-H 105 Ancient Through Medieval Art</td>
<td>CHI 321 Introduction to Contemporary Chinese Film</td>
<td>CLA 100 Ancient Stories in Modern Films</td>
<td>ENG 230 Introduction to Literature</td>
<td>FR 103 French Film</td>
<td>GWS 201 Introduction to Gender and Women’s Studies</td>
<td>GER 103 Fairy Tales in European Context</td>
</tr>
<tr>
<td>ARC 213 History and Theory II: 18th-19th Centuries</td>
<td>A-H 106 Renaissance Through Modern Art</td>
<td></td>
<td>CLA 135 Greek and Roman Mythology</td>
<td>ENG 231 Literature and Genre</td>
<td>FR 261 Masterpieces of French Literature in Translation</td>
<td></td>
<td>GER 104 Turning Points (Subtitle required)</td>
</tr>
<tr>
<td></td>
<td>A-H 312 Studies in Greek Art (Subtitle required)</td>
<td></td>
<td>CLA 210 The Art of Greece and Rome</td>
<td>ENG 232 Literature and Place</td>
<td>FR 465G Topics in French Literature and Culture in Translation (Subtitle required)</td>
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<td>GER 263 The German Cultural Tradition I</td>
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<tr>
<td></td>
<td>A-H 313 Studies in Roman Art (Subtitle required)</td>
<td></td>
<td>CLA 261 Literary Masterpieces of Greece and Rome</td>
<td>ENG 233 Literature and Identities</td>
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<td></td>
<td>GER 264 The German Cultural Tradition II</td>
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<tr>
<td></td>
<td>A-H 323 Studies in Medieval Art (Subtitle required)</td>
<td></td>
<td>CLA 331 Gender and Sexuality in Antiquity</td>
<td>ENG 234 Introduction to Women’s Literature</td>
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<td>GER 361 German Cinema</td>
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<tr>
<td></td>
<td>A-H 334 Studies in Renaissance Art (Subtitle required)</td>
<td></td>
<td>CLA 382 Greek and Roman Religion</td>
<td>ENG 261 Survey of Western Literature from the Greeks</td>
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<td>A-H 335 Studies in Early Modern Art, 1500-1700</td>
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<td></td>
<td>ENG 262 Survey of Western Literature from 1660 to the Present</td>
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<tr>
<td></td>
<td>(Subtitle required)</td>
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<td>ENG 270 The Old Testament as Literature</td>
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<td></td>
<td>A-H 340 Studies in Art 1840-1914 (Subtitle required)</td>
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<td></td>
<td>ENG 271 The New Testament as Literature</td>
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<td></td>
<td>A-H 341 Studies in 20th Century Art (Subtitle required)</td>
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<td>ENG 331 Survey of British Literature I</td>
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<td></td>
<td>A-H 342 Studies in American Art (Subtitle required)</td>
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<td>ENG 332 Survey of British Literature II</td>
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<td>ENG 334 Survey of American Literature I</td>
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<td></td>
<td>ENG 335 Survey of American Literature II</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Music</th>
<th>Philosophy</th>
<th>Russian and Eastern Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 100 Introduction to Music</td>
<td>PHI 100 Introduction to Philosophy: Knowledge and Reality</td>
<td>HJS 324 Jewish Thought and Culture I: From Ancient Israel to the Middle Ages</td>
</tr>
<tr>
<td>MUS 201 Music in Western Culture to 1700</td>
<td>PHI 130 Introduction to Philosophy: Morality and Society</td>
<td>HIS 325 Jewish Thought and Culture II: From the Expulsion from Spain to the Present</td>
</tr>
<tr>
<td>MUS 202 Music in Western Culture, 1700 - Present</td>
<td>PHI 260 History of Philosophy I: From Greek Beginnings to the Middle Ages</td>
<td>RUS 380 Nineteenth-Century Russian Literature (in English)</td>
</tr>
<tr>
<td>MUS 206 American Music</td>
<td>PHI 270 History of Philosophy II: From the Renaissance to the Present</td>
<td>RUS 381 Russian Literature 1900-Present (in English)</td>
</tr>
<tr>
<td>MUS 220 Symphonic Music</td>
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<tr>
<td>MUS 221 Survey of Vocal Music: Opera, Art Song, Choral Music</td>
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<tr>
<td>MUS/AAS 300 History of Jazz</td>
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<td>MUS 301 Appalachian Music</td>
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</tbody>
</table>
**IX. CROSS-CULTURAL (one course)**

Upon completion of the cross-cultural requirement, students will be able to: (1) describe some of the major developments in at least one non-Western culture; and (2) demonstrate an understanding of the impact of cultural differences on social interactions.

To fulfill the cross-cultural requirement, complete one of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-H 104</td>
<td>Introduction to African Art</td>
</tr>
<tr>
<td>A-H 307</td>
<td>Ancient Near Eastern and Egyptian Art</td>
</tr>
<tr>
<td>A-H 308</td>
<td>Studies in African Art (Subtitle required)</td>
</tr>
<tr>
<td>AAS 254</td>
<td>History of Sub-Saharan Africa</td>
</tr>
<tr>
<td>AAS 263</td>
<td>African and Caribbean Literature and Culture of French Expression in Translation (Subtitle required)</td>
</tr>
<tr>
<td>AAS 264</td>
<td>Major Black Writers</td>
</tr>
<tr>
<td>AAS 328</td>
<td>Geography of the Middle East and North Africa</td>
</tr>
<tr>
<td>AAS 336</td>
<td>Geography of Sub-Saharan Africa</td>
</tr>
<tr>
<td>AAS 417G</td>
<td>Survey of Sub-Saharan Politics</td>
</tr>
<tr>
<td>AAS 431G</td>
<td>Cultures and Societies of Sub-Saharan Africa</td>
</tr>
<tr>
<td>AIS 328</td>
<td>Islamic Civilization I</td>
</tr>
<tr>
<td>AIS 330</td>
<td>Islamic Civilization II</td>
</tr>
<tr>
<td>ANT 160</td>
<td>Cultural Diversity in the Modern World</td>
</tr>
<tr>
<td>ANT 221</td>
<td>Native People of North America</td>
</tr>
<tr>
<td>ANT 241</td>
<td>Origins of Old World Civilization</td>
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<tr>
<td>ANT 242</td>
<td>Origins of New World Civilization</td>
</tr>
<tr>
<td>ANT 320</td>
<td>Andean Civilization</td>
</tr>
<tr>
<td>ANT 321</td>
<td>Introduction to Japanese Culture, Meiji (1868) to Present</td>
</tr>
<tr>
<td>ANT 322</td>
<td>Aztec and Maya Civilization</td>
</tr>
<tr>
<td>ANT 323</td>
<td>Peoples of the Pacific Islands</td>
</tr>
<tr>
<td>ANT 324</td>
<td>Contemporary Latin American Cultures</td>
</tr>
<tr>
<td>ANT 327</td>
<td>Culture and Societies of India</td>
</tr>
<tr>
<td>ANT 431G</td>
<td>Cultures and Societies of Sub-Saharan Africa</td>
</tr>
<tr>
<td>CHI 320</td>
<td>Gender Politics in Chinese Literature</td>
</tr>
<tr>
<td>CHI 321</td>
<td>Introduction to Contemporary Chinese Film</td>
</tr>
<tr>
<td>ENG 264</td>
<td>Major Black Writers</td>
</tr>
<tr>
<td>ENG 283</td>
<td>Japanese Film</td>
</tr>
<tr>
<td>EPE 555</td>
<td>Comparative Education</td>
</tr>
<tr>
<td>FAM 258</td>
<td>Child Development and Family Life in Japan and China</td>
</tr>
<tr>
<td>FR 263</td>
<td>African and Caribbean Literature and Culture of French Expression in Translation (Subtitle required)</td>
</tr>
<tr>
<td>GEO 160</td>
<td>Lands and Peoples of the Non-Western World</td>
</tr>
<tr>
<td>GEO 260</td>
<td>Third World Development</td>
</tr>
<tr>
<td>GEO 324</td>
<td>Geography of Central and South America and the Caribbean</td>
</tr>
<tr>
<td>GEO 328</td>
<td>Geography of the Middle East and North Africa</td>
</tr>
<tr>
<td>GEO 330</td>
<td>Geography of South Asia</td>
</tr>
<tr>
<td>GEO 332</td>
<td>Geography of Southeast Asia</td>
</tr>
<tr>
<td>GEO 333</td>
<td>Geography of East Asia</td>
</tr>
<tr>
<td>GEO 334</td>
<td>Environment, Society and Economy of Japan</td>
</tr>
<tr>
<td>GEO 336</td>
<td>Geography of Sub-Saharan Africa</td>
</tr>
<tr>
<td>HIS 206</td>
<td>History of Colonial Latin America, 1492-1810</td>
</tr>
<tr>
<td>HIS 207</td>
<td>History of Modern Latin America, 1810 to Present</td>
</tr>
<tr>
<td>HIS 247</td>
<td>History of Islam and Middle East Peoples, 500-1250 A.D.</td>
</tr>
<tr>
<td>HIS 248</td>
<td>History of Islam and Middle East Peoples, 1250 to the Present</td>
</tr>
<tr>
<td>HIS 254</td>
<td>History of Sub-Saharan Africa</td>
</tr>
<tr>
<td>HIS 295</td>
<td>East Asia to 1800</td>
</tr>
<tr>
<td>HIS 296</td>
<td>East Asia Since 1800</td>
</tr>
<tr>
<td>HIS 536</td>
<td>Intellectual and Cultural History of Russia to 1800</td>
</tr>
<tr>
<td>HIS 548</td>
<td>History of the Middle East: 1453-1920</td>
</tr>
<tr>
<td>HIS 549</td>
<td>History of the Middle East: 1952 to Present</td>
</tr>
<tr>
<td>HIS 550</td>
<td>Studies in Mid-East History and Politics (Subtitle required)</td>
</tr>
<tr>
<td>HIS 561</td>
<td>The Intellectual and Cultural History of Latin America</td>
</tr>
<tr>
<td>HIS 562</td>
<td>Modern Mexico</td>
</tr>
<tr>
<td>HIS 593</td>
<td>East Asian History Since World War II</td>
</tr>
<tr>
<td>HIS 597</td>
<td>Westerners in East Asia, 1839 to the Present</td>
</tr>
<tr>
<td>HIS 598</td>
<td>China in Revolution, 1895-1976</td>
</tr>
<tr>
<td>JPN 283</td>
<td>Japanese Film</td>
</tr>
<tr>
<td>JPN 320</td>
<td>Introduction to Japanese Culture, Pre-Modern to 1868</td>
</tr>
<tr>
<td>JPN 321</td>
<td>Introduction to Japanese Culture, Meiji (1868) to Present</td>
</tr>
<tr>
<td>JPN 334</td>
<td>Environment, Society and Economy of Japan</td>
</tr>
<tr>
<td>LAS 201</td>
<td>Introduction to Latin America</td>
</tr>
<tr>
<td>MAT 247</td>
<td>Dress and Culture</td>
</tr>
<tr>
<td>MUS 330</td>
<td>Music in the World (Subtitle required)</td>
</tr>
<tr>
<td>PHI 343</td>
<td>Asian Philosophy</td>
</tr>
<tr>
<td>PHI 504</td>
<td>Islamic and Jewish Philosophy and the Classical Tradition</td>
</tr>
<tr>
<td>PS 212</td>
<td>Culture and Politics in the Third World</td>
</tr>
<tr>
<td>PS 417G</td>
<td>Survey of Sub-Saharan Politics</td>
</tr>
<tr>
<td>PS 420G</td>
<td>Governments and Politics of South Asia</td>
</tr>
<tr>
<td>PS 428G</td>
<td>Latin American Government and Politics</td>
</tr>
<tr>
<td>RUS 270</td>
<td>Russian Culture 900-1900</td>
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<tr>
<td>RUS 271</td>
<td>Russian Culture 1900-Present</td>
</tr>
<tr>
<td>RUS 370</td>
<td>Russian Folklore (in English)</td>
</tr>
<tr>
<td>SOC 380</td>
<td>Globalization: A Cross-Cultural Perspective</td>
</tr>
<tr>
<td>SPA 314</td>
<td>Civilization of Spanish America</td>
</tr>
<tr>
<td>SPA 371</td>
<td>Latin American Cinema (Subtitle required)</td>
</tr>
<tr>
<td>SPA 372</td>
<td>Spanish Cinema (Subtitle required)</td>
</tr>
<tr>
<td>UK 301</td>
<td>Cross-Cultural Studies (Subtitle required)</td>
</tr>
</tbody>
</table>

**X. ELECTIVES (six hours)**

With the approval of the advisor, students must complete six hours of electives, three hours of which must be outside the student’s major. Some colleges may have additional information on the selection of these electives, so contact your advisor for more information.

**COMMUNITY COLLEGE TRANSFER WORK**

UK participates in the General Education Transfer Agreement (G ETA). Refer to the University Bulletin for information on GETA; or, visit the Council on Postsecondary Education Web site at: www.cpe.state.ky.us/going2/going2_transfer_planning.asp.

The following courses from the Kentucky Community and Technical College System and Bluegrass Community and Technical College have been approved to apply toward completion of USP discipline requirements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 104</td>
<td>Animal Biology – VI. Natural Sciences</td>
</tr>
<tr>
<td>BIO 105</td>
<td>Animal Biology Laboratory – VI. Natural Sciences</td>
</tr>
<tr>
<td>BIO 106</td>
<td>Principles of Plant Biology – VI. Natural Sciences</td>
</tr>
<tr>
<td>BSL 110</td>
<td>Human Anatomy and Physiology I – VI. Natural Sciences</td>
</tr>
<tr>
<td>BSL 111</td>
<td>Human Anatomy and Physiology II – VI. Natural Sciences</td>
</tr>
<tr>
<td>CHM 105</td>
<td>General College Chemistry Laboratory I – VI. Natural Sciences</td>
</tr>
<tr>
<td>CHM 107</td>
<td>General College Chemistry Laboratory II – VI. Natural Sciences</td>
</tr>
<tr>
<td>GLY 101</td>
<td>Physical Geology – VI. Natural Sciences</td>
</tr>
<tr>
<td>GLY 102</td>
<td>Historical Geology – VI. Natural Sciences</td>
</tr>
<tr>
<td>GLY 111</td>
<td>Laboratory for Physical Geology – VI. Natural Sciences</td>
</tr>
<tr>
<td>HUM 135</td>
<td>Introduction to Native American Literature – IX. Cross Cultural</td>
</tr>
<tr>
<td>HUM 230</td>
<td>Twentieth Century Japanese Literature – IX. Cross Cultural (credit available only at Somerset Community College)</td>
</tr>
<tr>
<td>PY 110</td>
<td>General Psychology – VII. Social Sciences</td>
</tr>
<tr>
<td>RS/ANT 130</td>
<td>Introduction to Comparative Religion – IX. Cross Cultural</td>
</tr>
</tbody>
</table>
The research, teaching, extension, and regulatory functions of the College of Agriculture are combined into a coordinated, mutually supporting program of undergraduate and graduate education. Teaching in this college is closely related to the other functions thus providing the student with a unique opportunity to broaden his or her background in the areas of research and application of scientific findings to stakeholders.

Degree and study programs in the college run the entire range of the food, fiber, and agricultural system from farm production and marketing, manufacturing, processing and fabrication through nutrition, hospitality management, and consumer, community, and family studies.

On July 1, 2003, the School of Human Environmental Sciences joined the College of Agriculture. Degree requirements and information pertaining to these programs are listed beginning on page 94.

Admission
All students planning to study any phase of agriculture or human environmental sciences, including pre-veterinary medicine, are admitted directly into the College of Agriculture. Application for admission is made through the Office of Undergraduate Admissions.

Students interested in the Landscape Architecture program must meet all requirements for admission to the University. In addition, enrollment in the landscape architecture program is determined by a selective admission procedure. Applicants are selected on a competitive basis as determined by potential success in the program.

Accreditation
The undergraduate Forestry program at the University of Kentucky is accredited by the Society of American Foresters. The Landscape Architecture program is accredited by the American Society of Landscape Architects and meets all the requirements for licensing of landscape architects in Kentucky and other states. The Food Science program is accredited by the Institute of Food Technologists.

Accreditations for the School of Human Environmental Sciences are listed on pages 94-95 of this Bulletin.

Undergraduate Programs in Agriculture
The University of Kentucky grants the following degrees in the College of Agriculture:
- Bachelor of Science in Agriculture
- Bachelor of Science in Agricultural Biotechnology
- Bachelor of Science in Agricultural Economics
- Bachelor of Science in Animal Sciences
- Bachelor of Science in Career and Technical Education
- Bachelor of Science in Community Communications and Leadership Development

“When I visited UK my senior year of high school, I was scared due to the overwhelming size of the student body. I felt I would be recognized only as a number. However, from the first visit to the College of Agriculture, I knew it was a unique place that took pride in the success of its students. The College provides the academic challenges and support to succeed in college and beyond. The faculty and staff make every effort to get to know each and every student and are willing to help anyone at anytime. The many extracurricular activities give you the opportunity to meet many new friends and have the complete college experience. The College of Agriculture develops you into a person who will be successful in life.”

– Todd Strawn
Landscape Architecture
Agriculture Ambassador
Class of 2007

“My experience at the University of Kentucky and in the School of Human Environmental Sciences (HES) has been very enjoyable and it has laid the foundations for me to become a successful dietetics professional. Daily the professors push students to reach goals they never imagined were attainable, and they keep students abreast of developing industry trends by assigning meaningful team projects that allow us to apply academic concepts. Outside of the traditional classroom setting, HES offers many opportunities to become involved in national societies and major-specific clubs. The guidance and support I have received while being a part of HES has enhanced both my academic and intellectual skills. The School of HES presents a strong value proposition, delivering world class faculty, engaging curriculum options, and offering students a well-rounded experience inside and outside the classroom.”

– Julie Northrop
Dietetics, Coordinated Program
Class of 2008

SPECIAL APPLICATION DEADLINE FOR SCHOOL OF HUMAN ENVIRONMENTAL SCIENCES
Coordinated Program in Dietetics Upper division program applicants (students who have 71 semester hours of lower division courses – special application, transcript(s), and recommendations are due by:

<table>
<thead>
<tr>
<th>Fall</th>
<th>Feb. 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Bachelor of Science in Food Science</td>
<td></td>
</tr>
<tr>
<td>• Bachelor of Science in Forestry</td>
<td></td>
</tr>
<tr>
<td>• Bachelor of Science in Horticulture, Plant and Soil Sciences</td>
<td></td>
</tr>
<tr>
<td>• Bachelor of Science in Landscape Architecture</td>
<td></td>
</tr>
</tbody>
</table>
The College of Agriculture may be directed to:

Office of Academic Programs
N6 Ag. Science Building – North
University of Kentucky
Lexington, KY 40546-0091
(859) 257-3468 or (859) 257-3469

Graduate Work
The College of Agriculture offers the Master of Science degree in all college departments.

Doctor of Philosophy degrees are offered in the following areas: agricultural economics, animal sciences, biosystems and agricultural engineering, crop science, entomology, family studies, plant pathology, plant physiology, sociology, soil science, and veterinary science.

For more information, visit the Graduate School web site at: www.research.uky.edu/gs/

MINIMUM REQUIREMENTS FOR GRADUATION
NOTE: The following graduation requirements do not apply to degree programs in the School of Human Environmental Sciences; those requirements are described in the corresponding section of this Bulletin. Except where noted in specific degree programs, all students pursuing a Bachelor of Science degree in the College of Agriculture must complete:

1. the University Studies Program and University graduation requirements;
2. GEN 100: Issues in Agriculture;
3. a minimum of 120 credit hours with at least a 2.0 grade-point average. Some programs require more than the minimum 120 credit hours and have other grade-point average requirements. Remedial courses may not be counted toward the total hours required for the degree;
4. an Agriculture Major with a minimum of 24 hours including 3 hours in a 400-level capstone course;
5. a core of specialty or professional support courses outside the major department totaling at least 18 hours at the 200 level or above; and
6. a minimum of 45 credit hours from upper division courses (300 and above).

B.S. in Agriculture with a major in INDIVIDUALIZED PROGRAMS

Individualized program opportunities have been developed to assist students with academic goals that cross several disciplines. Students pursuing the Bachelor of Science in Agriculture may pursue an individualized program in agriculture such as Entomology.

The procedure for entering an individualized program is as follows:

1. Each student must apply to the Associate Dean for Academic Programs. The student will receive an explanation of the program and its objectives, and the possible risks involved, including prospective employment and acceptance for advanced graduate degree work.

2. Students who continue their interest in the individualized program develop, with the assistance of an advisor, the plan which they propose to follow.

3. This plan must be submitted to the Associate Dean for consideration and possible approval.

4. Approval of the student’s program by the Associate Dean will admit the student to the individual program option.

For more information, contact:

Office of Academic Programs
N6 Ag. Science Building – North
University of Kentucky
Lexington, KY 40546-0091
(859) 257-3468 or (859) 257-3469

BACHELOR OF SCIENCE IN AGRICULTURAL BIOTECHNOLOGY

Agricultural biotechnology encompasses cellular and molecular approaches to the manipulation and improvement of agricultural plants, animals and microorganisms, and the control of agricultural pests and diseases. The primary purpose of the baccalaureate degree program in Agricultural Biotechnology is to train students in modern cellular and molecular biology and genetic engineering. Students will be provided with a firm foundation in the principles of genetics and molecular biology of both prokaryotic and eukaryotic organisms. Each student will then specialize in an area appropriate to his or her interest and career objectives, including: microbial, fungal, plant, insect and mammalian biotechnology.

Graduates will be prepared to assume government, university, and industry positions with research and technology applications to agriculture and food production. Employment opportunities include research scientists, laboratory technicians or managers in university, government, industrial, or clinical laboratories using biotechnological tools for research and production. Examples of research areas include: gene cloning, construction of novel pest and disease resistance genes, development of new immunological and nucleic acid types of diagnostic probes for plant and animal disease, genetic engineering of microorganisms for the production of important pharmaceutical agents, and development of new bioengineered strains of microorganisms for fermentation and food production services. Students will also be prepared to enter graduate programs in agriculture, molecular biology, and the biological sciences.
Graduation Requirements
To earn a Bachelor of Science in Agricultural Biotechnology the student must complete 132 semester hours with at least a 2.0 grade-point standing. A minimum of 45 credit hours must be from upper division courses (300 and above). Remedial courses may not be counted toward the total hours required for the degree. In addition to the University Studies requirements, students must complete college, pre-major, major, and specialty support requirements, including an independent research project relevant to the student’s interest in biotechnology.

Plan of Study
As an agricultural biotechnology major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Office of Academic Programs.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Consult your academic advisor in developing your Plan of Study.

College Required Hours

<table>
<thead>
<tr>
<th>GEN 100 Issues in Agriculture</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtotal: College Required Hours</td>
<td>3</td>
</tr>
</tbody>
</table>

University Studies Requirements Hours
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies Areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Inference-Logic
MA 123 Elementary Calculus and Its Applications and MA 132 Calculus for the Life Sciences 6
MA 113 Calculus I 4

Natural Sciences
CHE 105 General Chemistry I 3
CHE 107 General Chemistry II 3
CHE 111 Laboratory to Accompany General Chemistry I 1
CHE 113 Laboratory to Accompany General Chemistry II 2

USP/Electives
BIO 150 Principles of Biology I 3
BIO 152 Principles of Biology II 3

Premajor Requirements Hours
*BIO 150 Principles of Biology I 3
*BIO 151 Principles of Biology Laboratory I 2
*BIO 152 Principles of Biology II 3
*BIO 153 Principles of Biology Laboratory II 2
*CHE 105 General Chemistry I 3
*CHE 107 General Chemistry II 3
*CHE 111 Laboratory to Accompany General Chemistry I 1
*CHE 113 Laboratory to Accompany General Chemistry II 2
CHE 230 Organic Chemistry I 3
CHE 231 Organic Chemistry Laboratory I 2
CHE 232 Organic Chemistry II 3
CHE 233 Organic Chemistry Laboratory II 2
*MA 123 Elementary Calculus and Its Applications and MA 132 Calculus for the Life Sciences 6
*MA 113 Calculus I 4
PHY 211 General Physics 5
PHY 213 General Physics 5

(or equivalent with laboratory)

Subtotal: Premajor Hours 45-46

Major Requirements Hours

<table>
<thead>
<tr>
<th>Biotechnology</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABT 101 Introduction to Biotechnology</td>
</tr>
<tr>
<td>*ABT 201 Scientific Method in Biotechnology</td>
</tr>
<tr>
<td>*ABT 301 Writing and Presentations in the Life Sciences</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Microbiology</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 208 Principles of Microbiology</td>
</tr>
<tr>
<td>BIO 209 Principles of Microbiology Laboratory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Biochemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 401G Fundamentals of Biochemistry</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>BCH 501 General Biochemistry and BCH 502 General Biochemistry</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Genetics</th>
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<tbody>
<tr>
<td>ABT/ASC/ENT 360 Genetics</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>BIO 304 Principles of Genetics</td>
</tr>
<tr>
<td>BIO 460 Introduction to Molecular Genetics</td>
</tr>
<tr>
<td>BIO 461 Introduction to Population Genetics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 291 Statistical Method</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Advanced Practical Skills</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABT 495 Experimental Methods in Biotechnology</td>
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<tr>
<td>or</td>
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<tr>
<td>BIO 510 Recombinant DNA Techniques Laboratory</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Independent Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABT 395 Independent Study in Biotechnology</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>ABT 399 Experiential Learning in Biotechnology</td>
</tr>
</tbody>
</table>

All students are expected to undertake an independent study project in an area of their interest for a minimum of 3 credit hours. This requirement can be met by a research project or an internship that is agreed upon by a student’s advisor and approved by the Biotechnology Coordinating Committee prior to initiation of the project. Both written and oral reports are required when the project is completed.

Subtotal: Major Hours 31-35

**The combination of ABT 201 and ABT 301 may be used to satisfy the University Writing Requirement.

Specialty Support Hours
Students must take a minimum of 21 credit hours of specialty support courses including at least one of the courses listed below. A number of the courses listed here may have additional prerequisites. Additional specialty support courses will be selected according to the student’s area of interest with approval of the academic advisor.

| ASC 364 Reproductive Physiology of Farm Animals | 4 |
| BIO 315 Introduction to Cell Biology | 3 |
| BIO 350 Animal Physiology | 4 |
| BIO 430G Plant Physiology | 3 |
| BIO 476G General Microbial Physiology | 4 |
| BIO/PGY 502 Principles of Systems, Cellular and Molecular Physiology | 5 |
| BIO 515 General Cell Biology | 3 |
| BIO 550 Comparative Physiology | 3 |
| BIO 580 Metabolism of Microorganisms | 4 |

PGY/MI 590 Cellular and Molecular Physiology 4

Subtotal: Specialty Support Hours 21

Electives
Electives should be selected to complete the 132 hours required for graduation.

Subtotal: Electives minimum of 15

TOTAL HOURS: 132

BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS

The Agricultural Economics program enables graduates to pursue careers in agribusiness and food industries, international marketing and trade, or farm management and production. Opportunities are also available in public policy for agriculture and rural America and environmental economics. These career opportunities may be found in both the private and public sectors. Economic theory is applied to problems concerning the production, marketing, and distribution of agricultural and food products and also to public policy and natural resource and environmental issues facing rural communities.

Agricultural Economics students choose one of two options – Option A: Agricultural Economics, and Option B: Agribusiness Management and Food Marketing.

Graduation Requirements
To earn the Bachelor of Science in Agricultural Economics, the student must have a minimum of 120 credit hours with at least a 2.0 grade-point average in one of the two program options. A student must earn a minimum grade of C in each of the four agricultural economics courses required in the major. A minimum of 45 credit hours must be from upper division courses (300 and above). Remedial courses may not be counted toward the total hours required for the degree. In addition to University Studies requirements, students must complete college, departmental and support requirements.

Plan of Study
As an agricultural economics major you are required to develop an acceptable Plan of Study in your chosen area of emphasis for your junior and senior years. The plan must be signed by your advisor and returned to the Office of Academic Programs.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan for approval during the first semester you are enrolled in the department.

Consult your academic advisor in developing your Plan of Study.

College Required Hours

<table>
<thead>
<tr>
<th>GEN 100 Issues in Agriculture</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtotal: College Required Hours</td>
<td>3</td>
</tr>
</tbody>
</table>
University Studies Requirements Hours
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements. Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Math
MA 109 College Algebra ................................................... 3

Inference-Logic
MA 123 Elementary Calculus and Its Applications ................. 3

or
MA 113 Calculus I ............................................................ 4

Social Sciences
ECO 201 Principles of Economics I ...................................... 3

One course other than economics from University Studies Program list ................................................................. 3

OPTIONS

Option A: Agricultural Economics

This option provides a program of study for students interested in careers in rural public policy analysis, rural economic development, natural resource and environmental economics, cooperative extension, or a more individualized program.

Premajor Requirements Hours
*ECO 201 Principles of Economics I ................................ 3
ECO 202 Principles of Economics II ................................... 3
*MA 113 Calculus I ............................................................ 4

or
*MA 123 Elementary Calculus and Its Applications

and
MA 162 Finite Mathematics and Its Applications ............. 6
STA 291 Statistical Method ................................................. 3
**ENG 203 Business Writing ............................................. 3

Subtotal: Premajor Hours ........................................ 19-21

**May be used to satisfy the University Writing Requirement.

Major Requirements Hours
Note: Students must receive a grade of C or better in each of the following four agricultural economics courses required for graduation:

AEC 302 Agricultural Management Principles .................. 4
AEC 303 Microeconomic Concepts in Agricultural Economics ......................................................... 3
AEC 305 Food and Agricultural Marketing Principles ...... 3
AEC 422 Agribusiness Management .................................. 3

plus 12 additional hours in the major ............................. 12

Subtotal: Major Hours ............................................... 25

Specialty Support Hours
ACC 201 Financial Accounting I ................................. 3
ACC 202 Managerial Uses of Accounting Information ........... 3

plus completion of the requirements of a Minor in Business, plus 3 additional hours of courses at the 200 level or higher selected with advisor’s approval from the following departments: ACC, AEN, ASC, BAE, COM, CS, DIS, ECO, ENT, FIN, FOR, MA, MGT, MKT, PLS, PS, PSY, SOC, VS

Subtotal: Specialty Support Hours ..................... 21

Electives
Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation.

Subtotal: Electives ........................................ minimum of 16

TOTAL HOURS: .................................................. 120

Option B: Agribusiness Management and Food Marketing

A student in this option should be qualified for careers in marketing, sales, and management of farms or firms involved in production, financing, processing, marketing and distribution of food and agricultural products, depending on the electives chosen.

Premajor Requirements Hours
CS 101 Introduction to Computing I ................................ 3
*ECO 201 Principles of Economics I ................................ 3
ECO 202 Principles of Economics II ................................ 3
ECO 391 Economic and Business Statistics .......................... 3
*MA 113 Calculus I ............................................................ 4

or
*MA 123 Elementary Calculus and Its Applications

and
MA 162 Finite Mathematics and Its Applications ............. 6
STA 291 Statistical Method ................................................. 3
**ENG 203 Business Writing ............................................. 3

Subtotal: Premajor Hours ........................................ 22-24

**May be used to satisfy the University Writing Requirement.

Major Requirements Hours
Note: Students must receive a grade of C or better in each of the following four agricultural economics courses required for graduation:

AEC 302 Agricultural Management Principles .................. 4
AEC 303 Microeconomic Concepts in Agricultural Economics ......................................................... 3
AEC 305 Food and Agricultural Marketing Principles ...... 3
AEC 422 Agribusiness Management .................................. 3

plus 12 additional hours in the major ............................. 12

Subtotal: Major Hours ............................................... 25

Electives
Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation.

Subtotal: Electives ........................................ minimum of 13

TOTAL HOURS: .................................................. 120

BACHELOR OF SCIENCE IN ANIMAL SCIENCES

Animals have many important roles in human societies including the provision of food and fiber, draft power, recreational and athletic activities, and companionship. In addition, animals and their interactions with humans have environmental consequences. The processing, preservation, and quality of animal-derived foods are of significant economic and safety importance. Animal Sciences involves studying and applying the basic principles of nutrition, reproduction, and genetics to the production and management of animals including horses, dairy and beef cattle, sheep, swine, poultry, and other domesticated species. Additional course work provides information on the production and handling of animal-derived foods.

No one program fits all Animal Sciences students. Students come from varied backgrounds and their interests range from livestock and poultry production and management to marketing and public relations; from public education and extension to graduate training in research and teaching and veterinary medicine. No matter what species you have an interest in, the Animal Sciences major will allow you to combine your interest with your desire for an exciting and rewarding career.

As an Animal Sciences major, students have the opportunity to pursue specific interests by selecting one of three study options: Animal Industry, Food Industry or Pre-Professional. The Animal Industry option is for those students interested in animal production and management and can specialize in one of three areas: livestock, equine, or dairy. The Food Industry option is designed to provide an emphasis on aspects of food processing, chemistry, and safety. The Pre-Professional option is a rigorous study program for students with interests in veterinary sciences, human medicine, and graduate research. Students must consult the pre-professional advisor or graduate school advisor of the university to which they intend on applying for additional or specific requirements.

Career Opportunities

To keep pace with the food, fiber, and recreation requirements of a growing world population, Animal Sciences graduates are needed in the livestock industry and closely related fields. The Animal Sciences major offers considerable flexibility in fulfilling specific career objectives, whether you are interested in working directly with livestock or indirectly in closely related areas such as agribusiness, research, government, or education.

Graduation Requirements

To earn the Bachelor of Science in Animal Sciences, the student must have a minimum of 120 credit hours with at least a 2.0 grade-point standing. A minimum of 45 credit hours must be from upper division courses (300 and above). Remedial courses may not be counted toward the total hours required for the degree. In addition to University Studies requirements, students must complete college, departmental and specialty support requirements.

Plan of Study

As an animal sciences major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by
In addition to the Major Requirements, students choose one of three options:

Option A: Animal Industry

Students fulfilling the Major Requirements are eligible for the Animal Industry Option by taking certain required Specialty Support Courses (see below). Students with more specific interests may, but are not required to, choose from three specializations available within this Option.

- **No Specialization**
  - (required Specialty Support only; see below) 0
  - **Livestock Specialization**
  - ASC 300 Meat Science ............................................ 4
  - and at least two from:
    - ASC 340 Poultry Production .................................. 2
    - ASC 404G Sheep Science ...................................... 4
    - ASC 406 Beef Cattle Science .................................. 4
    - ASC 408G Swine Production .................................... 2
  - **Equine Specialization**
  - ASC 310 Equine Anatomy and Conformation .................. 2
  - ASC 320 Equine Management .................................... 3
  - ASC 410G Equine Science ........................................ 3
  - **Dairy Specialization**
  - ASC 420G Dairy Cattle Science .................................. 3
  - ASC 564 Milk Secretion ........................................... 3

  **Subtotal: Option A Hours** 0-5

Option B: Food Industry

Students fulfilling the Major Requirements are eligible for the Food Industry Option by taking certain required Specialty Support Courses (see below) and:

- ASC 300 Meat Science ............................................. 4
- FSC 107 Introduction to Food Science .......................... 3

  **Subtotal: Option B Hours** 7

Option C: Pre-Professional

Students fulfilling the Major Requirements are eligible for the Pre-Professional Option by taking certain Specialty Support Courses (see below). Students must consult the pre-professional advisor or graduate school advisor of the university to which they intend on applying for additional or specific requirements.

- **Specialty Support**
  - Animal Industry Option
    - CHE 230 Organic Chemistry I ................................ 5
    - CHE 236 Survey of Organic Chemistry ........................ 3
    - Depending on the student’s area of interest and subject to the advisor’s approval, additional courses at the 200-level or above may be selected from biochemistry, biology, chemistry, physics, statistics, or any agricultural related area other than Animal Sciences ............... 15
  - **Food Industry Option**
    - CHE 230 Organic Chemistry I ................................ 5
    - CHE 236 Survey of Organic Chemistry ........................ 3
    - FSC 304 Animal Derived Foods ................................ 5
    - Depending on the student’s area of interest and subject to the advisor’s approval, additional courses at the 200-level or above may be selected from biochemistry, biology, chemistry, physics, statistics, or any agricultural related area other than Animal Sciences ............... 12
  - **Pre-Professional Option**
    - ABT/ENT 360 Genetics ........................................... 3
    - BIO 304 Principles of Genetics ................................ 3

  **Subtotal: Specialty Support** 18-24

Electives

Electives should be selected to complete the 120 hours required for graduation.

  **Subtotal: Electives** minimum of 17

**TOTAL HOURS:** 120

**BACHELOR OF SCIENCE IN BIOSYSTEMS AND AGRICULTURE ENGINEERING**

The Agricultural Engineering curriculum is administered jointly by the College of Agriculture and the College of Engineering. Agricultural Engineering provides an essential link between the biological sciences and the engineering profession. This linkage is necessary for the development of food and fiber production and processing systems which preserve our natural resource base. Students in the agricultural engineering program can pursue one of four areas of specialization: Bioenvironmental Engineering, Food and Bioprocess Engineering, Machine Systems Automation Engineering, and Environmental Engineering.

The degree requirements and curriculum are listed in the College of Engineering section of this Bulletin.

**BACHELOR OF SCIENCE IN CAREER AND TECHNICAL EDUCATION**

The Career and Technical Education degree involves Agricultural Education and Family and Consumer Sciences Education. Students take courses in technical, education, and professional content.

Graduates of this degree pursue careers in both formal and informal education of agriculture or family and consumer sciences. Formal education opportunities include teaching in the middle school or high school classroom. Informal education opportunities include working in Extension and the public or private sectors of industry.

Students choose one of two options – Option A: Agricultural Education; or Option B: Family and Consumer Sciences Education. In addition to receiving the degree, graduates also attain Rank III teaching certification in Agricultural Education (Option A) and a Rank III teaching certification in Family and Consumer Sciences Education (Option B).
Graduation Requirements

To earn the Bachelor of Science in Career and Technical Education, the student must have a minimum of 120 credit hours with at least a 2.0 grade-point average. A minimum of 45 credit hours must be from upper division courses (300 level and above). Remedial courses may not be counted toward the total hours required for the degree.

Plan of Study

As a career and technical education major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Office of Academic Programs.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Students must complete the following:

College Required Hours

Agricultural Education option students complete the following:

GEN 100 Issues in Agriculture .................................. 3
Family and Consumer Sciences Education option students complete the following:

HES 100 An Introduction to Professions in Human Environmental Sciences ........................................ 1
HES 400 Concepts in Human Environmental Sciences: Integration and Application ................................ 2
Subtotal: College Required Hours ..................... 3

University Studies Requirements

See "University Studies Program" on pages 77-81 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.

Major Requirements

AED/FCS 110 Introduction to Career and Technical Education ................................................................. 3
AED/FCS 362 Field Experiences in Career and Technical Education ..................................................... 3
AED/FCS 371 Advising a Career and Technical Student Organization ...................................................... 3
AED/FCS 435 Designing Curriculum and Assessment in Career and Technical Education .................. 3
AED/FCS 580 Foundations of Teaching Career and Technical Education ........................................... 3
AED/FCS 586 Methods of Teaching Career and Technical Education .................................................... 3
AED/FCS 590 Teaching Experience in Career and Technical Education .............................................. 12
EDP 203 Teaching Exceptional Learners in Classrooms ......................................................................... 3
FAM 357 Contemporary Adolescence ...................... 3
Oral Communication for Family and Consumer Sciences Education Option

COM 181 Basic Public Speaking or
COM 252 Introduction to Interpersonal Communication ................................................................. 3
Subtotal: Major-Required Hours ..................... 36-39

In addition to the Major Requirements, students choose one of two options.

OPTIONS

Option A: Agricultural Education

Option Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*AEC 302 Agricultural Management Principles</td>
<td>4</td>
</tr>
<tr>
<td>AEN 252 Farm Shop</td>
<td>3</td>
</tr>
<tr>
<td>ASC 101 Domestic Animal Biology</td>
<td>3</td>
</tr>
<tr>
<td>ASC 102 Applications of Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>CLD 102 The Dynamics of Rural Social Life (or other Social Science elective)</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201 Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>PLS 210 The Life Processes of Plants or</td>
<td>3</td>
</tr>
<tr>
<td>*ECO 201 is a prerequisite for AEC 302.</td>
<td></td>
</tr>
<tr>
<td>**CHE 105 is a prerequisite for PLS 366.</td>
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</tr>
</tbody>
</table>

Subtotal: Option A Hours ................. 26-27

Option A Specialty Support .......

Teacher Certification

Besides receiving the B.S. in Agriculture students completing the requirements can obtain a letter of endorsement to teach agricultural education. Requirements for teacher certification are as follows:

- To be certified you must be admitted to the teacher education program (TEP). To be admitted you must have completed, or complete during the semester in which you apply, 60 semester hours of course work and AED 210 Introduction to Career and Technical Education and have at least a 2.5 grade-point standing (on a 4.0 scale).

- Applicants are evaluated on an interview, recommendations, scholastic achievement, demonstrated skills, and professional commitment and goals. In addition, you must have three years of agricultural experience since the age of 14.

- You must also complete at least 50 hours in agricultural courses, including six hours in each of the following areas: animal sciences, plant sciences, soils, agricultural engineering, and agricultural economics (including Farm Management or Agribusiness Management). A professional education component is also required.

- You must successfully complete assessment items and portfolio items as required. Further, you must successfully complete the three basic sections of the PRAXIS Exam and a technical agriculture exam, scoring above cutoff scores specified by the State Board of Education for each exam. After completing these exams, students hired by Kentucky schools will complete a one-year paid internship as a first-year teacher and will be evaluated at least three times by a three-person committee before certification is completed.

Other agriculture majors can also qualify to teach agricultural education provided they meet current certification requirements.

Option B: Family and Consumer Sciences Education

Option Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAM 251 Personal and Family Finance</td>
<td>3</td>
</tr>
<tr>
<td>*FAM 252 Introduction to Family Science</td>
<td>3</td>
</tr>
<tr>
<td>*FAM 253 Human Sexuality: Development, Behavior and Attitudes</td>
<td>3</td>
</tr>
<tr>
<td>FAM 255 Child Development</td>
<td>3</td>
</tr>
</tbody>
</table>

*Course can also be used to satisfy University Studies Program requirements.

Subtotal: Option B Hours ................. 32

Specialty Support Requirements

In consultation with their advisor, select five courses from the following list:

- CLD 401 Principles of Cooperative Extension ........................ 3
- FAM 360 Introduction to Family Intervention: Working with Families and Individuals ................ 3
- FAM 383 Concepts of Personal and Family Management ................ 3
- FAM 473 Family Life Education ........................................... 3
- FAM 544 Cultural Diversity in American Children and Families ........ 3
- FAM 553 Parent-Child Relationships Across the Lifecycle .............. 3
- FAM 554 Working with Parents ............................................. 3
- FAM 563 Families, Legislation and Public Policy ...................... 3

Subtotal: Option B Specialty Support .... 15

Electives

Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation

Total Minimum Hours for Program .......... 120

BACHELOR OF SCIENCE IN COMMUNITY COMMUNICATIONS AND LEADERSHIP DEVELOPMENT

Community Communications and Leadership Development is an interdisciplinary social science major. It provides students with the knowledge and skills to integrate communications, sociology, journalism, and community development theories and apply them to real-world situations involving local communities and agricultural organizations.

The major focuses on such skills as written and oral communication; strategic problem solving; critical thinking; understanding of group, organizational, and community dynamics; and ethical decision making.

The agricultural communications option is a writing-based curriculum that prepares graduates for careers as communications professionals with agricultural and community-based media outlets and organizations. The public service and leadership option prepares graduates for leadership positions in public and private organizations or government agencies. Students in both options are encouraged to participate in internship opportunities.

Graduation Requirements

To earn the Bachelor of Science in Community Communications and Leadership Devel-
opment, the student must have a minimum of 120 credit hours with at least a 2.0 grade-point average. A minimum of 45 credit hours must be from upper division courses (300 level and above). Remedial courses may not be counted toward the total hours required for the degree.

### Plan of Study

As a community communications and leadership development major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Office of the Associate Dean for Academic Programs.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Students must complete the following:

#### College Required Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100 Issues in Agriculture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal: College Required Hours** 3

#### University Studies Requirements

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.

**Major Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>CLD 102 The Dynamics of Rural Social Life</em></td>
<td>3</td>
</tr>
<tr>
<td><strong>CLD 250 Reading Critically and Writing Well: Community Communications</strong> and Leadership Development</td>
<td>3</td>
</tr>
<tr>
<td>CLD 302 Leadership Studies</td>
<td>3</td>
</tr>
<tr>
<td>CLD 320 Survey of Agriculture and Consumer Media</td>
<td>3</td>
</tr>
<tr>
<td>CLD 340 Community Interaction</td>
<td>3</td>
</tr>
<tr>
<td>CLD 362 Field Experience in Community Communications and Leadership Development</td>
<td>3</td>
</tr>
<tr>
<td>CLD 405 Analytic Methods for Community Communications and Leadership Development</td>
<td>3</td>
</tr>
<tr>
<td>CLD 420 Sociology of Communities</td>
<td>3</td>
</tr>
<tr>
<td>CLD 490 Seminar in Community Communications and Leadership Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal: Major Requirements** 27

*Course can also be used to satisfy University Studies Program requirements.

**May be used to satisfy Graduation Writing Requirement.

In addition to the Major Requirements, students choose one of two options:

**OPTIONS**

**Option A: Agricultural Communications**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 101 Introduction to Journalism</td>
<td>3</td>
</tr>
<tr>
<td>CLD 204 Writing for the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>CLD 301 News Reporting</td>
<td>3</td>
</tr>
<tr>
<td>CLD 400 Agricultural Communications Campaigns</td>
<td>3</td>
</tr>
<tr>
<td>CLD 440 Community Processes and Communication</td>
<td>3</td>
</tr>
<tr>
<td>CLD 485 Community Journalism</td>
<td>3</td>
</tr>
<tr>
<td>*AEC 101 The Economics of Food and Agriculture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal: Option A Hours** 21

*Course can also be used to satisfy University Studies Program requirements.

**Specialty Support Requirements**

Depending on the student’s area of interest and subject to his/her academic advisor’s approval, he/she will complete an additional 6 hours of courses in the College of Agriculture and 12 hours in communications, journalism and related areas; students may take CLD 401 as one of these courses. The majority of these courses must be at the 300+ level.

**Subtotal: Option B Specialty Support** 18

**Option B: Public Service and Leadership**

*PS 101 American Government .................................. 3
| AEC 305 Food and Agricultural Marketing Principles | 3     |
| AEC 532 Agricultural and Food Policy                | 3     |
| **ECO 201 Principles of Economics I**               | 3     |

Choose one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLD 400 Agricultural Communications Campaigns</td>
<td>3</td>
</tr>
<tr>
<td>CLD 440 Community Processes and Communication</td>
<td>3</td>
</tr>
<tr>
<td>CLD 485 Community Journalism</td>
<td>3</td>
</tr>
<tr>
<td>Plus 6 additional hours of courses at the 200 level or higher to fulfill the student’s area of interest and selected with advisor’s approval from the following departments: PS, ANT, COM or SOC.</td>
<td></td>
</tr>
</tbody>
</table>

**Subtotal: Option B Hours** 21

*Course can also be used to satisfy University Studies Program requirements.

**Electives**

Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation.

**Subtotal: Option B Specialty Support** 18

**Total Minimum Hours for Program** 120

### BACHELOR OF SCIENCE IN FOOD SCIENCE

Food science is the study of the transformation of biological materials into food products acceptable for human consumption. This requires studying diverse scientific disciplines related to food, including chemistry, engineering, microbiology, biochemistry, toxicology, and management; and effectively applying the industrial and practical aspects to product development, food processing, preservation, and marketing. The program is administered by the Department of Animal and Food Sciences and offers training in the basic sciences and in the fundamentals of food science.

Career opportunities in food industries include: management, research and development of new food products and ingredients, process supervision, quality control, procurement, distribution, sales, and merchandising. Positions include sales and services in allied industries; consulting and trade association activities; and promotional and educational services. Government agencies employ food scientists whose work is directed towards research, regulatory control, and the development of food standards.

#### Graduation Requirements

To earn the Bachelor of Science in Food Science, the student must complete a minimum of 128 semester hours with at least 45 hours from courses at the 300 level and above. A 2.0 grade-point average (on a 4.0 scale) is necessary and remedial courses may not be counted toward the total hours required for the degree.

The Food Science program meets the requirements for accreditation by the Institute of Food Technologists and the National Organization of Food Science Professionals.

#### Plan of Study

As a food science major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Office of Academic Programs.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Consult your academic advisor in developing your Plan of Study.

Each student must complete the following:

#### College Required Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN 100 Issues in Agriculture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal: College Required Hours** 3

#### University Studies Requirements Hours

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

**Inference-Logic**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 123 Elementary Calculus and Its Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Natural Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 111 Laboratory to Accompany General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHE 113 Laboratory to Accompany General Chemistry II</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Social Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEC 101 The Economics of Food and Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>Plus one additional course</td>
<td></td>
</tr>
</tbody>
</table>

#### USP/Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 150 Principles of Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 152 Principles of Biology II</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Premajor Requirements Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 132 Calculus for the Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIO 208 Principles of Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 209 Introductory Microbiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHE 236 Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>NFS 212 Introductory Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>
ardship. Forestry education prepares students for careers as forestry and natural resource professionals. The objectives of the required courses in the forestry curriculum are to educate and train students in the communication, managerial, scientific, processing, and administrative skills and principles related to the stewardship and utilization of renewable natural resources. Accomplishment of these objectives will ensure a continuing supply of entry-level professionals for Kentucky and the nation.

The undergraduate (B.S.) program leading to the professional degree in forestry is accredited by the Society of American Foresters (SAF). SAF is the specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation as the accrediting agency for forestry in the United States. Additionally, you may become certified by The Wildlife Society if you choose appropriate elective courses.

Career Opportunities

Forestry graduates are employed as professional foresters in private forest industries and organizations, consulting companies, and public agencies, including the U.S. Forest Service, Soil Conservation Service, and state, county, or urban forestry programs. Graduates are also qualified to be research technicians in government, university, and private laboratories, or may continue their studies in specialized graduate programs.

The inclusion in the curriculum of management and processing principles makes UK forestry graduates attractive to the forest products industry; graduates are often employed as technical specialists, managers, and marketing and wood procurement personnel.

Graduation Requirements

To earn the Bachelor of Science in Forestry, the student must complete a minimum of 133 semester hours. Eight of these hours are earned while attending a Summer Camp between the third and fourth academic years. A 2.0 grade-point standing (on a 4.0 scale) is necessary and remedial courses may not be counted toward the total hours required for the degree.

The eight-week Summer Camp at Robinson Forest provides practical, in-the-field training and is required of all forestry students. The camp involves overnight travel and takes place at a number of field locations including but not necessarily limited to Robinson Forest.

The curriculum consists of University Studies program, preprofessional, professional, and specialty support components. This course provides a broad overview of forestry. Preprofessional, professional, and specialty support courses provide the skills and understanding to manage forest resources. Electives, chosen with the assistance of your advisor, strengthen your knowledge of basic principles in areas of special interest to you.

University Studies Requirements Hours

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements. Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Inference-Logic

MA 123 Elementary Calculus and Its Applications 3

Natural Sciences

CHE 105 General College Chemistry I 3

CHE 107 General College Chemistry II 3

CHE 111 Laboratory to Accompany General Chemistry I 1

CHE 113 Laboratory to Accompany General Chemistry II 2

Social Sciences

AEC 101 The Economics of Food and Agriculture 3

ECO 201 Principles of Economics I 3

One other course other than economics from USP list 3

USP Electives

BIO 150 Principles of Biology I 3

BIO 152 Principles of Biology II 3

Premajor Requirements Hours

High school trigonometry or MA 112 Trigonometry or equivalent 0-2

*MA 123 Elementary Calculus and Its Applications 3

MA 162 Finite Mathematics and Its Applications 3

*BIO 150 Principles of Biology I 3

*BIO 151 Principles of Biology Laboratory I 2

*BIO 152 Principles of Biology II 3

*BIO 153 Principles of Biology Laboratory II 2

CHE 105 General College Chemistry I 3

*CHE 107 General College Chemistry II 3

*CHE 111 Laboratory to Accompany General Chemistry I 1

*CHE 113 Laboratory to Accompany General Chemistry II 2

PHY 151 Introduction to Physics or any higher numbered physics course of 3 or more credit hours 3

*AEC 101 The Economics of Food and Agriculture or ECO 201 Principles of Economics I 3

*GEO 210 Pollution, Hazards, and Environmental Management or one other departmentally-approved course of 3 or more credit hours 3

STA 291 Statistical Method 3

Subtotal: Premajor Hours 37-39

Major Requirements Hours

FOR 100 Introduction to Forestry 3

FOR 200 Map Reading and Photogrammetry 2

FOR 205 Forest and Wildland Soils and Landscapes 4

FOR 219 Silvics and Tree Identification 3

FOR 300 Forest Measurements 4

FOR 340 Forest Ecology 3

FOR 350 Silviculture 3

FOR 360 Wood Technology and Utilization 4

FOR 402 Forest Entomology 3

FOR 425 Timber Management 4

FOR 430 Forest Wildlife Management 3

FOR 440 Forest Resources for Recreation 3

FOR 460G Forest Watershed Management 3

FOR 480 Integrated Forest Resource Management 5

**Bachelor of Science in Forestry**

Kentucky boasts many forested areas with famous reputations, such as Natural Bridge, Red River Gorge, Daniel Boone National Forest, and Robinson Forest. Robinson Forest is one of the largest research and educational forests in the eastern United States. It is managed by the Department of Forestry, and as a forestry student at the University of Kentucky all of its resources will be available to you as a unique outdoor laboratory.

The missions of the Department of Forestry are to identify and address the challenges and opportunities facing sustained management of our renewable natural resources, including forests, soils, water, and wildlife. These missions involve three interrelated functions: research, extension, and education. The research goal of the department is to obtain basic and applied information leading to wise and effective management of our natural resources. Forestry extension seeks to inform land owners and the general public about forest stewardship.
Forestry Field Camp
FOR 375 Taxonomy of Forest Vegetation ............ 1
FOR 376 Silvicultural Practices .......................... 2
FOR 377 Forest Surveying .................................. 1
FOR 378 Forest Mensuration ................................. 2
FOR 379 Harvest and Utilization of Wood ................. 2

Attendance at Forestry Field Camp requires completion of the following courses: FOR 200, FOR 205, FOR 219, FOR 300, FOR 340, FOR 350, FOR 360 (grade of C or better required in FOR 200, FOR 205, and FOR 219).

Subtotal: Major Hours ........................................ 59

Specialty Support Requirement
AEC 201 Introduction to Farm and Natural Resource Finance ........................................... 3

Subtotal: Specialty Support ................................. 3

Electives
Elective courses should be selected by the student to lead to the minimum total of 133 hours required for graduation.

Subtotal: Electives ................................ minimum of 16

TOTAL HOURS: .................................................. 133

BACHELOR OF SCIENCE IN HORTICULTURE, PLANT AND SOIL SCIENCES

The Horticulture, Plant and Soil Sciences degree program is designed to provide students with the knowledge and skills needed for a career in the production and management of plants and soils for food, fiber, forage, oil, recreation, landscaping and the enhancement of the human environment. Graduates have the technical and scientific skills as well as the communication, computational, leadership, and interpersonal capabilities necessary to function effectively as professionals. Careers are as diverse as they are challenging. Each Area of Emphasis prepares graduates for specific professional opportunities.

Areas of Emphasis
Students pursuing a Horticulture, Plant and Soil Sciences degree may choose from the following areas:

- Crops and Livestock
- Crops and Soils
- Horticulture Enterprise Management
- Horticultural Science
- Plant Pest Management
- Soil and Water Environmental Science
- Turfgrass Science

Graduation Requirements
Students must complete a minimum of 128 semester credit hours with at least 45 credit hours from courses at the 300 level or above. A 2.0 grade-point standing (on a 4.0 scale) is necessary and remedial courses may not be counted toward the total hours required for the degree. In addition to the University Studies and college requirements, students must select an Area of Emphasis with the assistance of an advisor and fulfill the area's program requirements.

Plan of Study
As a horticulture, plant and soil sciences major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Office of Academic Programs.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Consult your academic advisor in developing your Plan of Study.

College Required Hours
GEN 100 Issues in Agriculture ................................ 3

Subtotal: College Required Hours .................. 3

University Studies Requirements Hours
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Subtotal: University Studies Requirements Hours ................................. 21-39

Electives
Elective courses should be selected by the student to lead to the minimum total of 128 hours required for graduation.

Subtotal: Electives ................................ minimum of 17

TOTAL HOURS: .................................................. 128

BACHELOR OF SCIENCE IN LANDSCAPE ARCHITECTURE

The profession of landscape architecture has grown out of the tradition of the great garden designers of Italy, France, England, and China to encompass the art and science of design, planning, and management of the land. The science of landscape architecture is concerned with the conservation and management of natural resources. The art of landscape architecture is concerned with the creation of more enjoyable, comfortable, and safe outdoor areas where human use requires adaptation of the natural environment.

This five-year professional program is accredited by the American Society of Landscape Architects and meets all the requirements for licensing of landscape architects in Kentucky and other states. Landscape architecture employment opportunities may be found in the designing of urban communities, plazas, university campuses, institutional grounds, parks and recreational areas, commercial and industrial sites, and residential communities, as well as in the areas of historic preservation, regional planning, and mine reclamation.

Admission Requirements
Admission to the University of Kentucky and to the College of Agriculture does not guarantee admission to the Landscape Architecture program. All applicants must be reviewed by the Landscape Architecture Program Chairperson. The number of applicants ultimately admitted is determined by the resources available to provide high quality instruction. Applicants will be reviewed on a
order to advance to the next level.

Entering freshmen and transfer students from degree programs other than Landscape Architecture must:

1. submit a formal application to the Undergraduate Admissions Office indicating Landscape Architecture as your major;
2. meet the minimum criteria for admission or readmission to the University as specified in this Bulletin (The Landscape Architecture program requires a minimum of a 2.0 grade-point average on a 4.0 scale for eligibility to transfer into the program.); and
3. successfully complete the aptitude testing designated by the Landscape Architecture program.

If a student transferring from another degree program has a background in related design fields, he or she may submit available work, such as a portfolio or other work examples, as an indication of potential success.

Transfer students from degree programs in Landscape Architecture at other accredited institutions must:

1. submit a formal application to the Office of Undergraduate Admissions indicating Landscape Architecture as your major;
2. meet the minimum criteria for admission to the University as specified in this Bulletin (The Landscape Architecture program requires a minimum of a 2.0 grade-point average on a 4.0 scale for eligibility to transfer into the program.); and
3. submit a portfolio for review which, combined with an evaluation of courses completed, will determine acceptance into the program as well as the level to which the student will be accepted.

Graduation Requirements

To earn a Bachelor of Science degree in Landscape Architecture, the student must have 145 semester hours with at least a 2.0 grade-point standing (on a 4.0 scale). Remedial courses may not be counted toward the total hours required for graduation. In addition to satisfying the University Studies Program requirements, each student must complete premajor, professional, and specialty support requirements. The Landscape Architecture program policy requires a student to achieve a C grade or better in major design studios in order to advance to the next level.

University Studies Requirements Hours

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies Areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Math
MA 109 College Algebra ........................................ 3

Natural Sciences
GLY 110 Endangered Planet: An Introduction to Environmental Geology ........................................ 3
GLY 220 Principles of Physical Geology .................... 4
or
GLY 101 Physical Geology and
GLY 111 Laboratory for Physical Geology ................ 4

Social Sciences
ECO 101 Contemporary Economic Issues or
ECO 201 Principles of Economics I ........................... 3
One course other than economics from University Studies Program list ........................................ 3

Premajor Requirements

Hours
AEN 103 Basic Principles of Surveying .................... 2
ARC 828 Computers and Architecture ..................... 3
*ECO 101 Contemporary Economic Issues or
*ECO 201 Principles of Economics I ........................... 3
*GLY 101 Physical Geology and
GLY 111 Laboratory for Physical Geology ............ 4
or
*GLY 220 Principles of Physical Geology .............. 4
*GLY 110 Endangered Planet: An Introduction to Environmental Geology .................. 3

Subtotal: Premajor Hours .................................... 15

Departmental Professional Requirements

LA 205 History of Landscape Architecture ................ 3
LA 206 Contemporary Landscape Architecture ............ 3
LA 821 Landscape Architecture Design Studio I ........ 6
LA 822 Landscape Architecture Design Studio II ........ 6
LA 833 Landscape Architecture Design Studio III .......... 6
LA 834 Landscape Architecture Design Studio IV .......... 6
LA 841 Landscape Architecture Design Studio V ........... 6
LA 842 Landscape Architecture Design Studio VI ......... 6
LA 871 Design Implementation I ............................. 4
LA 872 Design Implementation II ........................... 4
LA 973 Advanced Design Implementation ................ 6
LA 975 Advanced Landscape Architecture Studio ........ 6

Students must complete four courses at the 800 level and two courses at the 900 level from the following:

LA 850 Landscape Architecture Graphics ................... 3
LA 851 Design with Plants .................................. 3
LA 853 History and Theory of Urban Form ................ 3
LA 854 Historic Landscape Preservation .................. 3
LA 855 Geographic Information Systems and Landscape Analysis ........................................ 3
LA 857 Design Theories in Landscape Architecture .......... 3
LA 858 Regional Land Use Planning Systems ............. 3
LA 895 Independent Work in Landscape Architecture .... 1-6
LA 952 Advanced Landscape Architectural Graphic Communication ........................................ 3
LA 956 Advanced Geographic Information Systems (GIS) and Landscape Analysis ..................... 3
LA 959 Advanced Regional Land Use Planning Applications ........................................... 3
LA 971 Senior Project .......................................... 3

Subtotal: Major Hours ...................................... 80

Specialty Support Requirements

ARC 850 Professional Practice ................................ 3
PLS 220 Introduction to Plant Identification .............. 3
PLS 320 Woody Horticultural Plants ....................... 4
BIO 325 Introductory Ecology ................................ 4
or
FOR 340 Forest Ecology ...................................... 3
PLS 366 Fundamentals of Soil Science ..................... 4
or
FOR 205 Forest and Wildland Soils and Landscapes .......... 4

Select one additional 400-500 level course from an area of study related to landscape architecture, such as GEO, HIS, SOC, PSY, PS, etc., with the approval of the student’s advisor.

Subtotal: Specialty Support .................................. minimum of 20

Electives

Electives should be selected by the student to lead to the minimum total of 145 hours required for graduation.

Subtotal: Electives ........................................ minimum of 3

TOTAL HOURS: ........................................ 145

BACHELOR OF SCIENCE IN NATURAL RESOURCE CONSERVATION AND MANAGEMENT

The program in Natural Resource Conservation and Management is designed to provide students with the knowledge and skills needed for a career in the rapidly growing fields of environmental science and policy. As the world population grows, and as nations are drawn closer together through technology and trade, the conservation and management of natural resources will become increasingly important to the sustained well-being of all societies. The curriculum provides students with exposure to a broad array of key disciplines involved with natural resources. As a result, graduates have the capacity to integrate different perspectives and diverse bodies of knowledge in dealing with real resource management problems.

All students in the program share a common core of major requirements. This core is designed to provide the student with broad exposure to the technical and socioeconomic dimensions of natural resources and their management. Important components of this core of courses are a required three-week summer camp after the sophomore or junior year and a required internship or research experience. In addition to this core, all students must develop a Concentration Area consisting of at least 18 hours of course work. This Concentration Area allows the student to focus the degree on an area of interest in the technical or policy oriented aspects of natural resource management. These courses must be chosen in consultation with the academic advisor and must be approved by the advisor and the NRCM Steering Committee as part of the plan of study for the student.

Graduates of the Natural Resource Conservation and Management degree program are employed as professionals in both the public and private sectors. Industries which have an
impact upon the environment maintain a staff of environmental scientists and technicians to ensure compliance with the standards of our society. Government agencies employ broadly trained natural resource scientists to serve in regulatory or management functions for the resources in their jurisdiction. Additional employment opportunities exist in environmental journalism and education, and with the many nonprofit organizations which have environmental concerns. In addition, students in either option are well prepared for graduate programs dealing with resource and environmental issues and in traditional academic disciplines.

Graduation Requirements

To earn a Bachelor of Science in Natural Resource Conservation and Management, the student must complete at least 120 semester hours with at least a 2.0 grade-point standing. A minimum of 45 credit hours must be from upper division courses (300 and above). Remedial courses may not be counted toward the total hours required for the degree. In addition to the University Studies Program requirements, the student must complete college, premajor, major, and concentration requirements, including an internship or research experience. The student will construct their concentration area with the approval of a faculty advisor in the area of interest.

Plan of Study

As a Natural Resource Conservation and Management major, you are required to work with your advisor to develop a complete Plan of Study during your sophomore year for your junior and senior years. The plan will be signed by your advisor, approved by the NRRCM Steering Committee, and placed in your file in the Office of the Associate Dean for Academic Programs. If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

University Studies Requirements Hours

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Inference-Logic

MA 123 Elementary Calculus and Its Applications .................................. 3

or

MA 113 Calculus I .............................................................................. 4

Natural Sciences

CHE 105 General College Chemistry I ......................................................... 3

CHE 107 General College Chemistry II .......................................................... 3

CHE 111 Laboratory to Accompany General Chemistry I ................................ 1

CHE 113 Laboratory to Accompany General Chemistry II ........................................ 2

Social Sciences

ECO 201 Principles of Economics I ...................................................................... 3

One course other than economics from University Studies Program list ........... 3

USP/Electives

BIO 150 Principles of Biology I ........................................................................... 3

BIO 152 Principles of Biology II ......................................................................... 3

MA 113 Calculus I ......................................................................................... 4

or

MA 123 Elementary Calculus and Its Applications ............................................. 3-4

STA 291 Statistical Method .............................................................................. 3

These courses satisfy USP requirements.

Subtotal: Premajor Hours .......................................................... 31-32

Major Requirements Hours

AEC 424 Principles of Environmental Law .................................................... 3

AEC 445G Introduction to Resource and Environmental Economics ...................... 3

FOR 315 Conservation Biology ........................................................................ 3

FOR 340 Forest Ecology .................................................................................. 3

NRC 301 Natural Resource Conservation and Management* .................................. 3

NRC 320 Data Collection Technique*** ................................................................ 3

NRC 380 Analysis of Natural Resource Systems ..................................................... 3

NRC 381 Natural Resource Policy Analysis .............................................................. 3

NRC 395 Independent Study in Natural Resources? ........................................... 3

or

NRC 399 Experiential Education in Natural Resources? ....................................... 3

NRC 471 Senior Problem in Natural Resources ................................................. 3

NRC 555 Geographic Information Systems and Landscape Analysis ......................... 3

PLS 366 Fundamentals of Soil Science .................................................................... 4

plus one of the following:

NRC 420G Taxonomy of Vascular Plants ............................................................. 4

NRC 450G BiogeochernISTRY ......................................................................... 3

NRC 455G Wetland Delineation .......................................................................... 3

NRC 456G Constructed Wetlands ....................................................................... 3

NRC 477G Land Treatment of Waste .................................................................... 3

NRC 545 Resource and Environmental Economics .................................................................... 3

**May be used to satisfy the University Writing Requirement.

***NRC 320 is a three-week summer camp field data collection experience. The student will attend this camp after the sophomore or junior year. This camp exposes the student to a wide range of natural resource techniques and concepts, including aquatic ecology, soil and plant sciences, wildlife and forestry, and waste management.

(All students must complete either an internship (NRC 399) or a supervised research project (NRC 395). This requirement is designed to give the student real world exposure to natural resource work in their area of interest.

Subtotal: Major Hours .......................................................... 40-41

Concentration Area

In addition to the major requirements, each student, in consultation with his or her academic advisor, will select a minimum of 18 hours in course work that will constitute the student’s Concentration Area. At least 9 of these hours must be at the 300 level or above. This Concentration Area consists of a unique set of courses that allow specialization in a particular area. For example, a student might choose to develop a concentration in Natural Resource Policy, Wildlife Ecology, or Soil and Water Science. Alternatively, the student may wish to minor in another natural resources related program, for example Geology or Economics. If a minor is chosen, those hours will count towards the Concentration Area hours. In either case, the Concentration Area should represent a coherent theme.

The Concentration Area will be developed in the sophomore year as part of the required Plan of Study. This Plan of Study must be approved by the student’s advisor, the NRRCM Steering Committee, and then put on file in the Office of the Associate Dean for Academic Programs in the College of Agriculture.

Subtotal: Concentration Area ......................................................... 18

Electives

Free elective courses should be selected by the student to lead to the minimum total of 120 hours required for graduation.

Subtotal: Electives ......................................................... minimum of 6

TOTAL HOURS: ............................................................................... 120

MINORS IN AGRICULTURE

Minor in Agriculture

( NOTE: At the time of publication, the minor in agriculture was undergoing revision. Interested students should contact the College of Agriculture for more information.)

Students in this minor must complete 21 credit hours, selected from the following list. Courses must be selected from a minimum of three areas to assure diversity.

General Agriculture

(A maximum of two courses) .......................................................... Hours

ASC 106 Animal Agriculture .......................................................... in the Modern World ......................................................... 3

AEC 101 The Economics of Food and Agriculture ........................................ 3

CLD 102 The Dynamics of Rural Social Life .................................................. 3

PLS 104 Plants, Soils, and People: A Global Perspective ..................................... 3

GEN 105 Engineering Applications in Agriculture ........................................... 3

FSC 107 Introduction to Food Science ............................................................. 3

Agricultural Economics

AEC 302 Agricultural Management Principles ........................................... 4

AEC 303 Microeconomic Concepts in Agricultural Economics .......................... 3

AEC 305 Food and Agricultural Marketing Principles ........................................ 3

AEC 309 International Agriculture, World Food Needs and U.S. Trade in Agricultural Products ......................................................... 3

AEC 321 Agricultural Futures Markets ............................................................ 3

AEC 422 Agribusiness Management .............................................................. 3

Agricultural Engineering

AEN 320 Agricultural Structures .............................................................. 3

AEN 340 Principles of Food Engineering .......................................................... 4

AEN 345 Crop Drying and Processing ............................................................. 3
Animal Sciences
ASC 300 Meat Science ................................................. 4
ASC 382 Animal Production Principles ......................... 3
FSC 306 Introduction to Food Processing ......................... 4

Entomology
ENT 310 Insect Pests of Field Crops ................................. 3
ENT 320 Horticultural Entomology ................................. 3
ENT 340 Livestock Entomology ........................................ 2
ENT 402 Forest Entomology* ........................................ 3

Forestry
FOR 402 Forest Entomology* ........................................ 3
FOR 403 Forest Wildlife Management ............................... 3
FOR 440 Forest Resources for Recreation ......................... 3
FOR 460G Forest Watershed Management ......................... 3

Plant and Soil Science
PLS 352 Nursery Production ........................................ 3
PLS 366 Fundamentals of Soil Science ............................ 4
PLS 367 Soil and Water Analysis Laboratory ..................... 3
PLS 386 Plant Production Systems ................................ 4
PLS 402 Fruit Crop Production ......................................... 3
PLS 440 Plant Propagation ........................................... 3
PLS 465 Greenhouses and Controlled Environments .......... 3
PLS 520 Fruit and Vegetable Production ............................ 4

Plant Pathology
PPA 400G Principles of Plant Pathology .......................... 3

Electives must be selected from the following list:

ASC 420G Dairy Cattle Science ........................................ 3
ASC 564 Milk Secretion ................................................ 3

Minor in Community Communications and Leadership Development
The minor in Community Communications and Leadership Development requires 18 hours as follows:

Minor Requirements Hours
CLD 302 Leadership Studies ........................................ 3
CLD 320 Survey of Agriculture and Consumer Media ........ 3

Choose two of the following:
CLD 340 Community Interaction .................................. 3
CLD 405 Analytic Methods for Community Communications and Leadership Development ................................ 3
CLD 420 Sociology of Communities ................................ 3
CLD 440 Community Processes and Communication ........ 3

Select six additional hours in CLD at the 300 level or above in consultation with your advisor.

Minor in Entomology
Preminor Requirement Hours
Two semesters of introductory biology ............................... 6

Minor Requirements
Required:..................................................................... 15

ENT 300 General Entomology ......................................... 3
Select the remaining credits (12 hours) from:
ENT 310 Insect Pests of Field Crops ................................. 3
ENT 320 Horticultural Entomology ................................. 3
ENT 340 Livestock Entomology ........................................ 2
ENT 360 Genetics ....................................................... 3
ENT 395 Independent Work ............................................. 1-3
ENT 402 Forest Entomology ........................................... 3
ENT 530 Integrated Pest Management ............................... 3
ENT 561 Insects Affecting Human and Animal Health ........ 3
ENT 563 Parasitology ................................................... 4
ENT 564 Insect Taxonomy ............................................. 4
ENT 568 Insect Behavior ............................................... 3
ENT 574 Advanced Applied Entomology ............................ 4

Minor in Food Science
Required Courses Hours
FSC 535 Food Analysis or ............................................ 4
FSC 434G Food Chemistry ............................................. 4
FSC 530 Food Microbiology ............................................ 5
FSC 536 Advanced Food Technology or ............................ 4
FSC 538 Food Fermentation and Thermal Processing .......... 4

Elective Courses
Two of the following:
FSC 306 Introduction to Food Processing ................................ 4
AEN 340 Principles of Food Engineering ............................. 4
FSC 535 Food Analysis* or ........................................... 4
FSC 434G Food Chemistry* ........................................... 4
FSC 536 Advanced Food Technology* or ............................. 4
FSC 538 Food Fermentation and Thermal Processing* .......... 4

*If not taken as one of the required courses.

Minor in Pest Management
Prerequisite Hours
One course from the following:
ASC 320, 404G, 406, 408G, 420G
PLS 352, 386, 402, 408, 412, 515, 520, 525, 556 ... 2-4

Minor Requirements
Required:..................................................................... 15

ENT 300 General Entomology ........................................... 3
PLS 404 Integrated Weed Management ............................. 4
PPA 400G Principles of Plant Pathology ............................ 3

Minor in Sustainable Agriculture
The minor in Sustainable Agriculture requires 21 to 23 hours as follows:

Minor Prerequisite Hours
ECO 201 Principles of Economics .................................... 3

Minor Requirements
Required:..................................................................... 9

Any student wishing to minor in rural sociology should file an application with and be interviewed by the Director of Undergraduate Studies in sociology prior to entering the program.

Minor Requirements
Students must complete 15 hours in sociology, at least 12 of which must be at the 300 level or above, including one of the following six-hour blocks:
SOC 302 and SOC 303
SOC 304 and SOC 305
SOC 302 and SOC 304

Minor in Sustainable Agriculture
The minor in Sustainable Agriculture requires 21 to 23 hours as follows:

Minor Prerequisite Hours
ECO 201 Principles of Economics .................................... 3

Minor Requirements
Required:..................................................................... 9

Any student wishing to minor in rural sociology should file an application with and be interviewed by the Director of Undergraduate Studies in sociology prior to entering the program.

Minor Requirements
Students must complete 15 hours in sociology, at least 12 of which must be at the 300 level or above, including one of the following six-hour blocks:
SOC 302 and SOC 303
SOC 304 and SOC 305
SOC 302 and SOC 304

Minor in Sustainable Agriculture
The minor in Sustainable Agriculture requires 21 to 23 hours as follows:

Minor Prerequisite Hours
ECO 201 Principles of Economics .................................... 3

Minor Requirements
Required:..................................................................... 9

Any student wishing to minor in rural sociology should file an application with and be interviewed by the Director of Undergraduate Studies in sociology prior to entering the program.

Minor Requirements
Students must complete 15 hours in sociology, at least 12 of which must be at the 300 level or above, including one of the following six-hour blocks:
SOC 302 and SOC 303
SOC 304 and SOC 305
SOC 302 and SOC 304

Minor in Sustainable Agriculture
The minor in Sustainable Agriculture requires 21 to 23 hours as follows:

Minor Prerequisite Hours
ECO 201 Principles of Economics .................................... 3

Minor Requirements
Required:..................................................................... 9

Any student wishing to minor in rural sociology should file an application with and be interviewed by the Director of Undergraduate Studies in sociology prior to entering the program.

Minor Requirements
Students must complete 15 hours in sociology, at least 12 of which must be at the 300 level or above, including one of the following six-hour blocks:
SOC 302 and SOC 303
SOC 304 and SOC 305
SOC 302 and SOC 304
PRE-VETERINARY MEDICINE

Students interested in becoming veterinarians may enroll in the College of Agriculture at the University of Kentucky and complete their requirements for admission to veterinary school.

Although the Commonwealth of Kentucky does not have a school of veterinary medicine, it is a participating member of the Southern Regional Education Board plan, under which legal Kentucky residents may attend the Auburn University School of Veterinary Medicine. Each year 34 students are chosen from Kentucky to enter the Auburn program.

There is also a plan whereby two legal Kentucky residents may be accepted by the Tuskegee University School of Veterinary Medicine each year.

Under both of the above programs the students selected are exempt from the out-of-state tuition that would normally apply to a Kentucky resident. Admission is on a competitive basis with the final selection being made by a committee from each of the veterinary schools.

Pre-veterinary studies is not a degree program, but a pre-professional curriculum. It is strongly recommended that all pre-veterinary students choose a degree goal early in their college career. Although it is possible to complete pre-vet requirements in three years, the majority of students accepted to Auburn have a B.S. or B.A. degree.

A minimum of 72 semester hours with an overall grade-point average of 2.50 (on a 4.0 basis) is required prior to consideration for admission. Due to the high level of competition for admission to any veterinary school, a student should maintain at least a 3.0 academic standing on all college work. The average overall GPA for students accepted to veterinary schools is approximately 3.45. The student must have completed all of the required courses or acceptable substitutes by June 15 of the year of possible acceptance. Courses in certain advanced sciences must be taken within six years of entry to Auburn. All required courses must have a grade of “C” or greater.

Auburn applicants can use the Veterinary College Application Service (VCAS) application, available at: www.vcas.org. The deadline for Auburn applications is October 1. Auburn requires the General Aptitude portion of the Graduate Record Examination (GRE). Tuskegee requires a separate application form and the GRE, taken within three years of application. Additional forms are required for both schools; forms are available from Dr. Dwyer after June 1.

The following curriculum is designed to meet the requirements for both Auburn and Tuskegee. However, some changes in the pre-veterinary curriculum may go into effect during the school year. The student has the responsibility to work closely with his or her pre-veterinary advisor in making certain that all requirements are met for consideration for acceptance.

All CLEP and advanced placement credit for required courses must have prior approval by Dr. Dwyer. Auburn does not accept correspondence credit for required courses.

Pre-Veterinary Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK Written Communication requirement*</td>
<td>6-7</td>
</tr>
<tr>
<td>Literature (e.g. ENG 334)**</td>
<td>3 or 6</td>
</tr>
<tr>
<td>Fine Arts (e.g. MUS 100)**</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/Fine Arts electives**</td>
<td>6</td>
</tr>
<tr>
<td>History (e.g. HIS 108/109)**</td>
<td>3 or 6</td>
</tr>
<tr>
<td>Social sciences electives**</td>
<td></td>
</tr>
<tr>
<td>General Chemistry II</td>
<td>2</td>
</tr>
<tr>
<td>CHE 151/153 Principles of Biology I</td>
<td>6</td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 111 Laboratory to Accompany</td>
<td>4</td>
</tr>
<tr>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHE 113 Laboratory to Accompany II</td>
<td>2</td>
</tr>
<tr>
<td>CHE 230 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 231 Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>CHE 232 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>BCH 240/440 Fundamentals of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Science Electives**</td>
<td>6</td>
</tr>
</tbody>
</table>

Tuskegee requires ASC 378, BCH 410G (Biochemistry), 6 hours of math, and ASC 101 and ASC 102. *HON 101/102 can be used.

**Students should contact a UK pre-veterinary advisor regarding alternative courses.
***Science electives can include BIO 308, BIO 315, BIO 340, BIO 350 or other upper level science courses which are approved by a pre-veterinary advisor.

Auburn strongly urges students to take organic chemistry and physics courses at a four-year college or university.

Tuskegee and all other north American veterinary schools require biochemistry.

All pre-veterinary students who enter veterinary school without obtaining an Animal Science degree and petition UK for one later must fulfill the departmental requirements for an Animal Science degree. In order to be eligible for the B.S. in Animal Sciences, students must have completed all University Studies courses, all college requirements and all of the required core courses and production courses required in the Animal Sciences degree program.

Direct further inquiries to:
Robert C. Dwyer, DVM, MS
Department of Veterinary Science
Gluck Equine Research Center
College of Agriculture
University of Kentucky
Lexington, KY 40546-0099
(859) 257-4757 ext. 81122
e-mail: rmdwyer@uky.edu
www.ca.uky.edu/gluck/index.htm

SCHOOL OF HUMAN ENVIRONMENTAL SCIENCES

Human Environmental Sciences provides science-based programs concerned with the interactions of individuals and families within multiple environmental contexts, including social, cultural, economic, and political. The specialized areas of study prepare graduates for professional roles through academic work, practicum or field experience, and research with a focus on improving quality of life for individuals and families throughout the lifespan.

There are three departments in the School of Human Environmental Sciences—Family Studies; Merchandising, Apparel and Textiles; and Nutrition and Food Science. Each department offers both undergraduate and graduate study.

Undergraduate Programs in Human Environmental Sciences

The University of Kentucky grants the following degrees in the School of Human Environmental Sciences:

• Bachelor of Science in Dietetics
• Bachelor of Science in Family and Consumer Sciences
• Bachelor of Science in Hospitality Management
• Bachelor of Science in Human Nutrition
• Bachelor of Science in Merchandising, Apparel and Textiles

Minors Offered

The following minors are available:

• Family Studies
• Merchandising, Apparel, and Textiles*
• Nutrition

*At the time of publication, the minor in merchandising, apparel, and textiles was in the process of being suspended. Consult your advisor for more information.

Accreditations and Approvals

All undergraduate programs in the School of Human Environmental Sciences are accredited by the American Association of Family and Consumer Sciences.

Additionally, all programs and facilities which can be accredited or approved have achieved that recognition:
• Didactic and Coordinated Programs in Dietetics are both accredited by the Commission on Accreditation for Dietetic Education (CADE)

• National Council for Accreditation of Teacher Education has accredited the program in Family and Consumer Sciences Education

Unique Features of the College Facilities and Services

Research Center for Families and Children; Betty D. Eastin Historic Costume Collection; textiles quality research laboratory; The Family Center (personal and marriage counseling); The Lemon Tree Restaurant; and nutrition research laboratories.

Scholarships

Over fifty scholarships are awarded each year to undergraduate and graduate students enrolled in the School of Human Environmental Sciences. Information about scholarships is available from the Student Services Office, 112 Erikson Hall.

Advising

All students are assigned a faculty advisor during their first semester in a program in the School of Human Environmental Sciences. For more information about programs or advising, contact:

School of Human Environmental Sciences
College of Agriculture
112 Erikson Hall
University of Kentucky
Lexington, KY 40506-0050
(859) 257-2855

DEPARTMENT OF FAMILY STUDIES

The Department of Family Studies is committed to offering quality programs for students preparing to work with individuals and families in various settings including schools, private and public social agencies, and business. The focus is on enhancing the quality of life for families. Undergraduate programming is at an applied level using an interdisciplinary approach from the perspectives of individual and family development, family resource management, and family systems.

The department offers a major in family and consumer sciences. (The College also offers a Bachelor of Science in Career and Technical Education with an option in Family and Consumer Sciences Education; see page 87.) Students in the family and consumer sciences major earn the degree Bachelor of Science in Family and Consumer Sciences. A minor in family studies is available.

Family and consumer sciences prepares students to work with individuals and families in unique ways. Positions include coordina-
tors of community education and outreach, crisis management, residential care, family financial management, research and planning, and social service workers. Students completing the program are eligible to become certified family life educators through the National Council on Family Relations. Contact the Department of Family Studies, 315 Funkhouser Building, (859) 257-7750, for more information about this optional credential.

BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES

NOTE: At the time of publication, the B.S. in Family and Consumer Sciences was undergoing revision. Consult your advisor for more information.

Each student must complete the following:

1. Complete University Studies requirements.
2. Complete the School requirements listed below.
3. Complete 120 credit hours with a minimum grade-point average of 2.0.
4. Complete the required curriculum in the major program.

School Requirements

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Inference-Logic

STA 200 Statistics: A Force in Human Judgment .......... 3
PHI 120 Introductory Logic ................................... 3

Oral Communication

COM 181 Basic Public Speaking or
COM 252 Introduction to Interpersonal Communication ........................................ 3

Subtotal: School Required Hours ..........  6

University Studies Requirements Hours

*SOC 101 Introduction to Sociology or
ANT 220 Introduction to Cultural Anthropology .... 3
ECO 201 Principles of Economics ........................ 3
**ENG 203 Business Writing ................................ 3

*These courses may also be used to fulfill University Studies requirements.

**Meets Graduation Writing Requirement.

Subtotal: Premajor Hours ............  25

Major Requirements

FAM 250 Consumer Issues ..................................... 3
FAM 251 Personal and Family Finance .................. 3
*FAM 252 Introduction to Family Science .............. 3
*FAM 253 Human Sexuality: Development, Behavior and Attitudes .... 3
FAM 254 Developmental Psychology .................... 3
FAM 255 Child Development ................................ 3
FAM 354 The Family in Cross-Cultural Perspective or
FAM 544 Cultural Diversity in American Children and Families .................. 3
FAM 360 Introduction to Family Intervention: Working With Families and Individuals .......... 3
FAM 383 Concepts of Personal and Family Management .................................................. 3
FAM 390 Introduction to Research in Family Studies ................................................. 3
FAM 399 Practicum in Family Studies ................. 3
FAM 401 Normal Family Development and Process .................................................. 3
FAM 402 Family Economics and Management Issues .................................................. 3
FAM 473 Family Life Education ............................. 3
FAM 486 Field Experiences in Family Resource Management or
FAM 499 Internship in Family Life Education .......... 3
FAM 502 Families and Children Under Stress ........ 3
FAM 563 Families, Legislation, and Public Policy .................................................. 3
Additional FAM courses chosen with advisor approval .............................................. 6

*These courses may also be used to fulfill University Studies requirements.

Subtotal: Major Hours ..................................  57

Electives

Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation.

Minimum Elective Hours ............................  13

TOTALCOURSES: .................................. 120

Minor in Family Studies

Any student interested in a minor in family studies should file an application with the department prior to entering the program.

Minor Requirements

FAM 250 Personal and Family Finance .................. 3
FAM 252 Introduction to Family Science .............. 3
FAM 255 Child Development ................................ 3

Minor Electives

Twelve additional hours in Family Studies from the following with six hours at the 300-, 400- or 500-level:

FAM 250, 253, 254, 256, 354, 357, 383, 509, 553, 554, 563.
DEPARTMENT OF
MERCHANDISING, APPAREL,
AND TEXTILES

The Department of Merchandising, Apparel, and Textiles is committed to excellence as it prepares students for merchandising, apparel, and textiles positions in an increasingly diverse and technological world. Teaching, research, and service programs support student development and contribute to the economic and social well-being of the Commonwealth, the nation, and the world. The department offers the Bachelor of Science in Merchandising, Apparel, and Textiles. A minor is also available.

BACHELOR OF SCIENCE IN
MERCHANDISING, APPAREL,
AND TEXTILES

NOTE: At the time of publication, the B.S. in Merchandising, Apparel, and Textiles was undergoing revision. Consult your advisor for more information.

The Merchandising, Apparel, and Textiles program develops graduates who are consumer and technology focused with a global orientation. Students study concepts and develop skills necessary for understanding consumer and market trends, strategies, and industry structures that facilitate the development, sourcing, marketing, and merchandising of consumer goods and services in the domestic and international marketplace.

The curriculum challenges students to think creatively, to learn research and problem solving techniques, and to interact in team efforts, while gaining knowledge of the merchandising process. Students gain awareness of the inter-relationships of people, technology, and materials in the dynamic social, economic, and global environment of the merchandising, apparel and textile industry. Course work includes a strong business component, interaction with professionals and field experience. Internships are a required component of the program, which can lead to permanent professional placement. Faculty encourage student participation in industry-sponsored projects related to merchandising and product development.

Each student must complete the following:
1. Complete University Studies requirements.*
2. Complete the School requirements listed below.
   3. Complete 120 credit hours with a minimum grade-point average of 2.0.
   4. Complete the required curriculum in the major program.

*For the Inference Section under Inference and Communicative Skills, majors select Philosophy (PHI 120 or PHI 320) and Statistics (STA 200).

School Requirements
HES 100 An Introduction to Professions in Human Environmental Sciences ................ 1
HES 400 Concepts in Human Environmental Sciences: Integration and Application .......... 2
One course in Human Environmental Sciences, outside the student’s major prefix .......... 3
Subtotal: School Required Hours ................ 6

University Studies Requirements
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Program Entrance Requirements
The minimum grade-point average for entrance of all students into the Merchandising, Apparel and Textiles program is 2.0.

Progression Requirements
Students must attain a C or better in all premajor courses required for progression into course work designated as major requirements. This includes: Writing course (200 level), COM 181, FAM 250, PSY 100, SOC 101, ECO 201, ECO 202, STA 200 or STA 291.

Graduation Requirements
Students must fulfill all prerequisites and achieve a grade of C or better in all MAT courses which are major requirements.

Premajor Requirements Hours
Writing course (200 level or above) ............... 3
*COM 181 Basic Public Speaking .................. 3
FAM 250 Consumer Issues ............................ 3
*PSY 100 Introduction to Psychology ............. 4
*SOC 101 Introduction to Sociology ............... 3
*ECO 201 Principles of Economics I ............... 3
ECO 202 Principles of Economics II ................ 3
*STA 200 Statistics: A Force in Human Judgment or
**STA 291 Statistical Method ....................... 3
These courses may also be used to fulfill University Studies requirements.
**MA 123 is a prerequisite to STA 291.
Subtotal: Premajor Hours .................. 25

Major Requirements
MAT 114 Introduction to Merchandising .......... 3
MAT 120 Textiles for Consumers .................. 3
MAT 237 Aesthetic Experience in Retail .......... 3
MAT 247 Dress and Culture ......................... 3
MAT 315 Merchandise Planning and Control .......... 3
MAT 340 Professional Practice ..................... 1
MAT 350 Problem Solving in Merchandising .......... 3
MAT 414 Merchandising Strategy Analysis .......... 3
MAT 425 Economics of Merchandise Sourcing .......... 3
MAT 470 International Merchandising ............... 3
MAT 490 Internship .................................. 6
MAT 515 Specification and Evaluation of Textiles and Apparel .................. 3
Choose 3 credits from:
MAT 480 Merchandising, Apparel and Textiles Study Tour .................. 3
DMT 520 Textiles for Interiors ....................... 3
MAT 522 History of Textiles ......................... 3
MAT 533 History of Costume ......................... 3
MAT 547 Social and Psychological Aspects of Apparel .................. 3
MAT 570 Electronic Retailing (E-Tailing) ........... 3
MAT 559 Special Topic in Merchandising, Apparel and Textiles (Subtitle required) .......... 3
MAT 395 Independent Study in Merchandising, Apparel and Textiles .................. 3
MAT 595 Independent Study in Merchandising, Apparel and Textiles (Subtitle required) .......... 3
Subtotal: Major Hours ................ 40

Professional Support (21 hours)
ACC 201 Financial Accounting I .................... 3
ACC 202 Managerial Uses of Accounting Information .................. 3
MKT 300 Marketing Management ................... 3
MKT 320 Retail and Distribution Management .......... 3
MGT 301 Business Management .................... 3
Subtotal: Professional Support ............... 21

Electives
Electives should be selected to complete the minimum total of 120 hours required for graduation.
Subtotal: Minimum Elective Hours .......... 6

TOTAL HOURS .................. 120

Minor in Merchandising, Apparel, and Textiles

NOTE: At the time of publication, the minor in merchandising, apparel, and textiles was in the process of being suspended. Consult your advisor for more information.

Students interested in this minor should file an application with the department in 318 Erikson Hall.

Minor Requirements
MAT 114 Introduction to Merchandising .......... 3
MAT 120 Textiles for Consumers .................. 3
MAT 237 Aesthetic Experience in Retail .......... 3
MAT 315 Merchandise Planning and Control .......... 3
MAT 350 Problem Solving in Merchandising .......... 3
MAT 470 International Merchandising ............... 3
Mat 425 Economics of Merchandise Sourcing .......... 3
MAT 515 Specification and Evaluation of Textiles and Apparel .................. 3

DEPARTMENT OF NUTRITION AND FOOD SCIENCE

The Department of Nutrition and Food Science provides sound undergraduate and graduate programs in foods and nutrition, and is concerned with research and extension services.

The department offers the Bachelor of Science in Dietetics, the Bachelor of Science in Hospitality Management, and the Bachelor of Science in Human Nutrition. A post-baccalaureate dietetic internship is also offered. A minor in nutrition is also available.
BACHELOR OF SCIENCE IN DIETETICS

NOTE: At the time of publication, the B.S. in Dietetics was undergoing revision. Consult your advisor for more information.

Dietetics prepares professionals who are recognized for expertise in food and nutrition. Graduates of the Dietetics program function as entry level professionals with opportunities for practice in medical nutrition therapy and community dietetics, food systems management, and business.

Students in dietetics choose either Program Option A or B. Both options lead to the Bachelor of Science in Dietetics and fulfill the Foundation Knowledge and Skills requirements established by the Commission on Dietetics Education (CADE) of the American Dietetic Association (ADA) which accredits the programs. Both programs are accredited by CADE.

Option A, designated as the Didactic Program in Dietetics (DPD), provides the Foundation Knowledge and Skills for dietetics education. Completion of the didactic curriculum provides “eligibility” to apply for a CADE accredited dietetic internship. Students must consider the highly competitive scenario in acquiring acceptance to a Dietetics Internship. Successful completion of the Dietetics Internship provides “eligibility” to sit for the national registry examination of the Commission of Dietetic Registration which grants use of the nationally recognized credential “R.D.” registered dietitian. Option A is accredited. Graduates of Option A may compete for placement in the Dietetics Internship program offered by the Department of Nutrition and Food Science or any other dietetic internship programs outside the department. A student completing the DPD must be a declared dietetics major in the Department of Nutrition and Food Science.

Option B, the Coordinated Program in Dietetics (CP) provides the academic curriculum and the supervised practice experience. Students who have completed the premajor requirements and are interested in the “coordinated” approach to attaining the didactic and supervised practice at UK may apply for admission to the CP in dietetics which requires two years of study combined with supervised practice. Option B, CP, is an accredited program for which admission is selective. Graduates of Option B are “eligible” to write the CDR registry examination at the first available examination date. Admission to the University of Kentucky does not guarantee admission to the Coordinated Program (CP). A limited number of students who have completed the required preprofessional courses will be admitted on the basis of cumulative grade-point average and other criteria indicating potential for becoming a successful dietitian. Application to CP should be made by February 1 prior to potential fall admission. Program application materials should include an application form, a letter of professional goals and qualifications, three letters of reference, and a personal interview. The CP Admissions Committee considers grade-point average, letters of recommendation, letter of application, work experience, honors and extracurricular activities. The personal interview evaluates communication skills, knowledge of the profession, goals, organizational and leadership skills.

Applicants will be notified of provisional acceptance before UK’s priority registration dates for the ensuing fall semester. Final acceptance depends on acceptable completion of the work in progress at the time of the application. Transfer students are urged to contact the Student Services Office, 102 Erikson Hall, for a preliminary evaluation of credits well in advance of the application date.

Dietetics Internship Program (DI), an internship, is offered for students who have completed a Didactic Program in Dietetics at UK or other accredited institutions. Qualified graduates compete for a limited number of positions in the DI. For information regarding the Dietetics Internship Program, the application and screening procedures, contact:

Director
Dietetics Internship Program
Dept. of Nutrition and Food Science
204 Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054

Degree Requirements
Each student must complete the following:

1. Complete University Studies requirements.
2. Complete the School requirements listed below.
3. Complete 128 credit hours with a minimum grade-point average of 2.0.
4. Complete the required curriculum in the major program.

School Requirements
HES 100 An Introduction to Professions in Human Environmental Sciences ........................ 1
HES 400 Concepts in Human Environmental Sciences: Integration and Application ............. 2
One course in Human Environmental Sciences, outside the student’s major prefix ............. 3

Subtotal: School Required Hours .............. 6

University Studies Requirements
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. Students should consult their advisor to complete the University Studies Program requirements.

Progression Requirements
Students must attain a grade-point average of 2.4 or above to progress into course work designated as major requirements. In addition, students must achieve a grade of C or better in all course work designated as major requirements.

Students must complete the following requirements:

**Premajor Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 152 Principles of Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 208 Principles of Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 111 Laboratory to Accompany General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHE 113 Laboratory to Accompany General Chemistry II</td>
<td>2</td>
</tr>
<tr>
<td>CHE 230 Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHE 236 Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>COM 181 Basic Public Speaking</td>
<td></td>
</tr>
<tr>
<td>COM 252 Introduction to Interpersonal Communication</td>
<td></td>
</tr>
<tr>
<td>COM 287 Persuasive Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201 Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>NFS 201 Introduction to the Dietetics Profession</td>
<td>1</td>
</tr>
<tr>
<td>NFS 204 Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NFS 212 Introductory Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFS 241 Food Service Sanitation</td>
<td></td>
</tr>
<tr>
<td>PGY 206 Elementary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 100 Introduction to Psychology</td>
<td>4</td>
</tr>
<tr>
<td>SOC 101 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>STA 200 Statistics: A Force in Human Judgment</td>
<td></td>
</tr>
</tbody>
</table>

Subtotal: Premajor Hours .................. 45

**Major Requirements**

Prior to beginning the major requirements, students should register a choice of Option A or Option B with the Office of Student Services, 103 Erikson Hall.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 201 Financial Accounting I</td>
<td></td>
</tr>
<tr>
<td>NFS 301 Dietetics Practice</td>
<td>2</td>
</tr>
<tr>
<td>NFS 304 Experimental Foods</td>
<td>3</td>
</tr>
<tr>
<td>NFS 311 Nutritional Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>NFS 312 Nutrition and Wellness</td>
<td></td>
</tr>
<tr>
<td>in the Life Cycle</td>
<td></td>
</tr>
<tr>
<td>NFS 314 Dietetics: Counseling and Communication</td>
<td></td>
</tr>
<tr>
<td>NFS 340 Institutional Purchasing</td>
<td>3</td>
</tr>
<tr>
<td>NFS 342 Quantity Food Production</td>
<td>4</td>
</tr>
<tr>
<td>MGT 301 Business Management</td>
<td></td>
</tr>
<tr>
<td>NFS 403 Community Nutrition and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NFS 408G Seminar in Food and Nutrition</td>
<td></td>
</tr>
<tr>
<td>NFS 510 Advanced Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFS 511 Therapeutic Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>NFS 513 Advanced Therapeutic Nutrition</td>
<td>2</td>
</tr>
</tbody>
</table>

Subtotal: Major Hours ..................... 40

**Option Requirements**

One option must be completed concurrently with the major requirements stated above.

**Option A – Didactic Program in Dietetics (DPD)**

NFS 480 Dietetics Pre-Professional Practice 1-6

Subtotal: Option A .......................... 1-6

**Option B – Coordinated Program in Dietetics (CP)**

Option B is a selective admission program. See statement above regarding admission procedures and criteria.

NFS 800 Nutrition in the Life Cycle: Practicum* 1
(co-req: NFS 312)

NFS 808 Community Nutrition: Practicum* ....... 2
(co-req: NFS 403)
NFS 810 Therapeutic Nutrition: Practicum* .................. 5
NFS 812 Food Service Systems: Practicum*............... 5
NFS 814 Advanced Food Systems Practicum* ............ 3
NFS 816 Advanced Therapeutic Nutrition* ................. 3
NFS 818 Evaluation of Diétetic Practices* ............... 2

*800-level course requires admission to CP.

Subtotal: Option B ............................................. 21

Electives

Electives should be selected by the student to lead to the minimum total of 128 hours required for graduation.

Subtotal: Minimum Elective Hours .......... 1-15
TOTAL HOURS ..................................................... 128

Requests for applications or further information may be directed to:

Director, Coordinated Program
Department of Nutrition
and Food Science
204 Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054

BACHELOR OF SCIENCE IN
HOSPITALITY MANAGEMENT

NOTE: At the time of publication, the B.S. in Hospitality Management was undergoing revision. Consult your advisor for more information.

In the Hospitality Management and Tourism program option in Nutrition and Food Science, which leads to the B.S. in Hospitality Management, students acquire the specialized knowledge needed for careers in the hospitality industry. They also receive training in the basic functions, objectives, and techniques of management. The student is prepared for managerial positions in hotels, restaurants, non-commercial food service and tourism areas, as well as positions as purchasing agents, food service equipment specialists, food service planning specialists, and other careers.

Entrance Requirement

The minimum grade-point average for entrance of all students into the Hospitality Management and Tourism program is 2.30.

Progression Requirement

In addition, students must have completed the following premajor courses with a grade of C or better in order to progress to courses which are major requirements: CS 101, ACC 201, ACC 202, ECO 201, ECO 202, HMT 120, HMT 210, NFS 241, HMT 208 or NFS 204, and HMT 270.

Graduation Requirement

Students must fulfill all prerequisites and achieve a grade of C or better in all NFS and HMT courses which are major requirements.

Each student must complete the following:
1. Complete University Studies requirements.
2. Complete the School requirements listed below.
3. Complete 128 credit hours with a minimum grade-point average of 2.0.
4. Complete the required curriculum in the major program.

School Requirements

HES 100 An Introduction to Professions in Human Environmental Sciences ........................................... 1
HES 400 Concepts in Human Environmental Sciences: Integration and Application ......................... 2
One course in Human Environmental Sciences, outside the student’s major prefix ............................... 3

Subtotal: School Required Hours .............. 6

University Studies Requirements Hours

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Math
MA 123 Elementary Calculus and Its Applications ... 3

Social Sciences
ECO 201 Principles of Economics I .................... 3
plus one other course from University Studies
Program social sciences list ................................. 3

Diversity Requirements
These courses will NOT satisfy the USP Cross-Cultural requirement for HMT majors:

ANT 160 Cultural Diversity in the Modern World
plus one of the following courses:
ANT 220 Introduction to Cultural Anthropology
ANT 324 Contemporary Latin American Cultures
ANT 327 Culture and Societies of India
AAS 200 Introduction to African-American Studies
GWS 200 Introduction to Gender and Women’s Studies in the Social Sciences

CS 101 Introduction to Computing I .................. 3
ACC 201 Financial Accounting I ....................... 3
ACC 202 Managerial Uses of Accounting Information ......................................................... 3
ECO 201 Principles of Economics I .................... 3
ECO 202 Principles of Economics II ..................... 3
HMT 120 Introduction to Hospitality Management and Tourism .............................................. 3
HMT 210 Hotel Rooms Division Management .......... 3
HMT 270 Principles of Travel and Tourism ............ 3
HMT 208 Introduction to Food and Beverage
or
NFS 204 Principles of Food Preparation ................ 3
MA 123 Elementary Calculus and Its Applications (prerequisite for STA 291) ............................. 3
STA 291 Statistical Method (subtitle required) .......... 3
Advanced writing course (200 level or above) .... 3
NFS 241 Food Service Sanitation ............................ 1

Subtotal: Premajor Hours ................................. 49-51

Major Requirements Hours Required:
NFS 342 Quantity Food Production ..................... 4
HMT 345 Information Technology in the Hospitality Industry .................................................. 3
HMT 350 Hospitality Managerial Accounting ........... 3
HMT 499 Hospitality and Tourism
Senior Field Experience ................................... 3
FIN 300 Corporation Finance .............................. 3
MGT 301 Business Management ........................... 3
MKT 300 Marketing Management ......................... 3

Subtotal: Major Hours ......................................... 22

Plus at least 15 hours selected from the following courses.

NFS 340 Institutional Purchasing ........................... 3
NFS 346 Human Resources Management
for the Food and Hospitality Industries ................. 3
HMT 320 Hospitality and Tourism Marketing .......... 3
HMT 330 Meetings and Convention Management ..... 3
HMT 460 Advanced Seminar in Lodging and Tourism ........................................................... 3
HMT 470 Hospitality and Tourism Law and Ethics ................................. 3
HMT 480 Trends Analysis for the Hospitality Industry ......................................................... 3
HMT 488 Advanced Food Service Management Seminar ................................................... 3
HMT 359 Hospitality and Tourism Special Topics:
(subtitle required) ............................................. 1-3
HMT 395 Hospitality and Tourism Independent Study .................................................. 1-3

Subtotal: Major Selection ................................. 15

Electives

Electives should be selected by the student to lead to the minimum total of 128 hours required for graduation.

Subtotal: Minimum Elective Hours .......... 4
TOTAL HOURS ..................................................... 128

BACHELOR OF SCIENCE IN
HUMAN NUTRITION

with a major in Human Nutrition

NOTE: At the time of publication, the B.S. in Human Nutrition was undergoing revision. Consult your advisor for more information.

The Bachelor of Science in Human Nutrition offers appropriate preparation for further study in nutritional sciences and health-related sciences, particularly public health, preventive medicine, and nutrition research.

Each student must complete the following:
1. Complete University Studies requirements.
2. Complete the School requirements listed below.
3. Complete 128 credit hours with a minimum grade-point average of 2.0.
4. Complete the required curriculum in the major program.

School Requirements

HES 100 An Introduction to Professions in Human Environmental Sciences ........................................... 1
HES 400 Concepts in Human Environmental Sciences: Integration and Application ......................... 2
One course in Human Environmental Sciences, outside the student’s major prefix ............................... 3

Subtotal: School Required Hours .............. 6

University Studies Requirements Hours

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.
Premajor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*PSY 100 Introduction to Psychology</td>
<td>4</td>
</tr>
<tr>
<td>*MA 113 Calculus I or MA 123 Elementary Calculus and Its Applications</td>
<td>3-4</td>
</tr>
<tr>
<td>*CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>*CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>*CHE 111 Laboratory to Accompany General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>*CHE 113 Laboratory to Accompany General Chemistry II</td>
<td>2</td>
</tr>
<tr>
<td>CHE 230 Organic Chemistry I</td>
<td>2</td>
</tr>
<tr>
<td>CHE 232 Organic Chemistry II</td>
<td>2</td>
</tr>
<tr>
<td>CHE 233 Organic Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>STA 291 Statistical Method</td>
<td>3</td>
</tr>
<tr>
<td>*BIO 150 Principles of Biology I</td>
<td>2</td>
</tr>
<tr>
<td>*BIO 152 Principles of Biology II</td>
<td>2</td>
</tr>
<tr>
<td>*BIO 153 Principles of Biology Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>*COM 181 Basic Public Speaking or COM 287 Persuasive Speaking</td>
<td>3</td>
</tr>
<tr>
<td>PGY 206 Elementary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>ANA 209 Principles of Human Anatomy</td>
<td>3</td>
</tr>
</tbody>
</table>

*These courses may also be used to fulfill University Studies requirements.

Subtotal: Premajor Hours ................. 48

Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFS 204 Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NFS 212 Introductory Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFS 240 Nutrition and Physical Fitness</td>
<td>3</td>
</tr>
<tr>
<td>NFS 241 Food Service Sanitation</td>
<td>1</td>
</tr>
<tr>
<td>NFS 311 Nutritional Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>NFS 312 Nutrition and Wellness in the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>NFS 304 Experimental Foods or FSC 434G Food Chemistry</td>
<td>3-4</td>
</tr>
<tr>
<td>NFS 403 Community Nutrition and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NFS 408G Seminar in Food and Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>NFS 510 Advanced Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFS 516 Maternal and Child Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFS 591 Special Problems in Food and Nutrition*</td>
<td>6</td>
</tr>
</tbody>
</table>

*Human Nutrition majors must complete six hours in NFS 591. Minimum credit hours per enrollment is three per academic session. Students must attain junior classification to qualify for enrollment.

Subtotal: Major Hours .................... 35

Electives

Electives should be selected by the student to complete the minimum total of 128 hours required for graduation.

Subtotal: Minimum Elective Hours .......... 14-15

TOTAL HOURS: ......................................... 128

Minor in Nutrition

NOTE: At the time of publication, the minor in nutrition was undergoing revision. Interested students should contact the Department of Nutrition and Food Science for more information.

Any student wishing to minor in nutrition should file an application with and be interviewed by the chairperson of the Department of Nutrition and Food Science prior to entering the program. After the interview, the student should provide his or her college dean with a copy of the minor program requirement sheet.

Preminor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 152 Principles of Biology II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 236 Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>PGY 206 Elementary Physiology (or equivalent)</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFS 212 Introductory Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFS 311 Nutritional Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>NFS 312 Nutrition and Wellness in the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>NFS 510 Advanced Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor Electives

A minimum of three hours to be chosen from:

- NFS 511 Therapeutic Nutrition              | 4     |
- NFS 516 Maternal and Child Nutrition       | 3     |
- NFS 403 Community Nutrition and Wellness   | 3     |
- NFS 408G Seminar in Food and Nutrition*    | 1     |

*May be repeated to a maximum of 3 hours.
The College of Arts and Sciences embodies the liberal arts: the natural sciences and mathematics, the social sciences, and the humanities. Students augment their knowledge in all three areas by exploring the interconnections among them.

Study of the liberal arts opens to students the vast scope and excitement of human intellectual and cultural achievement. It enlarges the student’s vision and enriches the student’s life. Study of arts and sciences prepares students for life-long learning and vocational success. It also prepares them for a life of effective civic participation as informed and critical citizens of a diverse global society.

In essence, an Arts and Sciences education fosters the ability to think and learn independently. Arts and Sciences graduates are well prepared to meet future technological and cultural transformations.

Undergraduate Programs in Arts and Sciences

The University of Kentucky grants the following degrees in the College of Arts and Sciences:

- Bachelor of Arts
- Bachelor of Science

Students pursuing the Bachelor of Arts or the Bachelor of Science select from these majors: anthropology, biology, chemistry, classics, economics, English, foreign language and international economics, French, geography, geology, German, history, Latin American studies, linguistics, mathematical economics, mathematics, philosophy, physics, political science, psychology, Russian studies, sociology, Spanish, and topical studies. For more information on degree programs, visit: www.as.uky.edu.

ADMISSION

Admission requirements are the same as those of the University, except for the topical studies major. Prospective students should see the college Web site: www.as.uky.edu.

PROGRAMS AND SERVICES

Academic Advising

Academic advising in the College of Arts and Sciences is provided by professional advisors, graduate students and selected faculty in the department of the student’s major during advising conferences and throughout the year. A&S freshmen and sophomores see a professional advisor located in the A&S Advising Center on the second floor of the Patterson Office Tower. Advising appointments may be made at: www.as.uky.edu/advising/sasy/.

Arts and Sciences juniors and seniors should contact the department of their major and request an advisor. However, the A&S professional advisors located in the A&S Advising Center on the second floor of the Patterson Office Tower are available for all A&S students needing authoritative information about University or College requirements.

Arts and Sciences freshmen and sophomores on academic probation will have a STOP placed on their record. All A&S students on probation are expected to meet with an Arts and Sciences professional advisor located in the A&S Advising Center on the second floor of Patterson Office Tower at the beginning of each semester and before the last day to withdraw from classes. Questions concerning these meetings should be addressed to the A&S Advising Center at (859) 257-8712.

Dean’s List

A student who completes at least 12 credits of “letter” grades with a 3.60 or higher grade-point average with no “I” grades listed for the fall or spring semester will be named to the Dean’s List in the College of Arts and Sciences. CLEP, AP, special exam, remedial course work (MA 108R) and Independent Study credits are excluded. The student’s cumulative grade-point average is not considered; only the grade-point average for that particular semester is relevant.

“Math is everywhere; correspondingly, so are chemistry, biology, psychology, and history. The value of a liberal arts education is depicted by its diversity: nowhere else on campus can the variety of approaches and ideas espoused within the College of Arts and Sciences be found. Exposure to these variable forms of thought prepares the student to better understand the world in which he or she lives.”

– Ryan Mabry
Major in Math

“ ‘When first arriving at the University of Kentucky, I was introduced into a vast field of knowledge, learning how my area of study overlapped with other areas of the sciences and humanities. Broadening my horizons, I now have a more inter-disciplinary approach to research and life. The College of Arts and Sciences provides many opportunities in areas of research and knowledge expanding one’s ability to evaluate and analyze information that are vital tools in everyday life. I have learned that a liberal arts education is a never-ending education. My knowledge will never end for there is something new to be learned each day that extends beyond the classroom with an Arts and Sciences education.’ ”

– Ashley McFarland
Major in Psychology and Sociology

All Arts and Sciences students are expected to familiarize themselves with the degree requirements and keep track of requirements. The University has an online degree audit system called APEX (www.uky.edu/degreeaudit/). Students are expected to view their personalized degree audit prior to any advising session where scheduling for classes will be discussed.

Routine questions concerning USP, college, major and minor requirements, grade-point average, repeat or bankruptcy options, transient student forms, credit overload requests, transfer credit equivalencies, forms required for graduation, and changing majors should be addressed to the staff in the A&S Advising Center, 257 Patterson Office Tower, (859) 257-8712; or www.as.uky.edu/. All forms, except the Application for Degree, are located at this Web site.
Commencement and Departmental Honors

Commencement honors are determined by University standards. A full explanation of these honors can be found in the Graduation Requirements section of this Bulletin (page 72). Please note that if a student has not completed at least 90 hours at the University of Kentucky, but has completed at least 60 hours at the University of Kentucky, the student is eligible for commencement honors, but is held to a 0.2 point higher standard. If the student has not completed at least 60 hours, the student is not eligible for commencement honors. Commencement honors are indicated on the student’s final transcript and announced at the College Baccalaureate Recognition Ceremony.

Departments in the College of Arts & Sciences award departmental honors to their outstanding graduates. The standards for departmental honors are not collectively established by the College, but determined by each department. For details on departmental honors, see Guide to A&S Departmental Honors Requirements on page 102. Address questions to the department awarding honors. Departmental honors are indicated on the student’s final transcript.

Scholarships

For information on general scholarships in the College of Arts and Sciences, contact Cindy Iten, Director of A&S Advising, 257 Patterson Office Tower, (859) 257-8712, or www.as.uky.edu/. Students interested in scholarships in a specific major should contact the individual department.

College Policy on Learning Disabilities

The College of Arts and Sciences anticipates that virtually all of its students will satisfy all of its requirements. However, any student who believes that he or she can show evidence – by diagnostic testing and/or psychological evaluation – that he or she has a learning disability which warrants course substitution of any specific college requirement may request such an exception from the Assistant Dean of Undergraduate Affairs in the College of Arts and Sciences. A student who believes that he or she can show evidence – by diagnostic testing and/or psychological evaluation – that he or she has a learning disability that is certified through the UK Disability Resource Center, 102 Alumni Gym. For information on general scholarships in the College of Arts and Sciences, contact Cindy Iten, Director of A&S Advising, 257 Patterson Office Tower, (859) 257-8712, or www.as.uky.edu/. Students interested in scholarships in a specific major should contact the individual department.

Readmission After a Two-Year Absence

In accordance with the University Senate rules which allow the dean of each college to determine which degree requirements a returning student shall follow, students should note the following: Students enrolling in the College of Arts and Sciences after an absence from the University of Kentucky system of two or more years will be expected to satisfy the university, college, graduation, and department requirements in effect at the time of readmission.

Students with extenuating circumstances may petition the Assistant Dean of Undergraduate Affairs for permission to continue under the degree requirements that were in effect during their previous enrollment in the UK system.

ACADEMIC SUSPENSION AND REINSTATEMENT

The College of Arts and Sciences follows the general University rules for academic suspension and reinstatement, which are outlined in the Academic Requirements section of this Bulletin. Students placed on academic suspension must be reinstated by the college in which they plan to enroll before applying for readmission to the university. Students planning to pursue a degree program in the College of Arts and Sciences should arrange for reinstatement proceedings before May 15 for any fall semester reinstatement, or October 1 for any spring semester reinstatement by calling A&S Student Services, (859) 257-8712. Students who fail to request reinstatement prior to these deadlines will normally not be considered for reinstatement until the subsequent semester.

A student who has been suspended for a second time from the University of Kentucky will usually not be considered for reinstatement by the College of Arts and Sciences until two years have passed since the date of the second suspension.

THE BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES

Students must complete four areas of requirements to obtain a UK Arts and Sciences degree. The four areas are: University Studies Program (USP); major requirements; college requirements; and university graduation requirements. The following information outlines the specific degree requirements for the B.A. and the B.S. in Arts and Sciences. Please read them carefully and also note the specific differences in each degree program.

The B.S. degree requires three hours in college disciplinary requirements for the natural sciences, social sciences and humanities beyond those required for the University Studies Program and requires 60 hours of physical, biological and/or mathematical sciences.

The B.A. degree requires six hours in college disciplinary requirements for the natural sciences, social sciences and humanities beyond those required for the University Studies Program and requires 39 hours in course work numbered at or above the 300 level.

College Requirements for a Bachelor of Arts Degree

It is important to review the “NOTES” section that immediately follows the “College Requirements for a Bachelor of Science Degree” section.

To receive the Bachelor of Arts degree, students must:
1. Complete the University Studies program (USP).†
2. Complete the following college requirements:
   a. Foreign Language Requirement. Students must satisfy one of the following options:
      1. satisfy the third and fourth semester of a college-level sequence in one language (including sign language) by successfully completing each semester course, or by demonstrating equivalent competency on a departmentally approved placement exam; or
      2. successfully complete three college-level semester courses in one language and two college-level semester courses in a second language. (Two college-level semester courses are considered equal to two years of a foreign language in secondary school. No other equivalencies are given for more years of foreign language as indicated on transcripts), or demonstrate equivalent competency on a departmentally approved placement exam (all options include sign language); or
   b. Students must take six college hours in disciplines in the natural sciences; or
   c. Students must take six college hours in disciplines in the social sciences.†

When appropriate, courses used to satisfy b through d below also can be used to satisfy the USP Cross-Cultural and Electives requirements. †

b. Students must take six college hours in disciplines in the natural sciences.†

c. Students must take six college hours in disciplines in the social sciences.†
## Guide to A&S Departmental Honors Requirements

<table>
<thead>
<tr>
<th>Major</th>
<th>Cumulative GPA</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>3.5</td>
<td>Senior honors thesis related to general issues within the topical sub-discipline; formation of a 3-person advisory committee (the DUS always serves as one of these three); a thesis defense. Normally, students enroll in ANT 581 to receive course credit for their Senior Honors Thesis preparation. (30 pages, double-spaced.)</td>
</tr>
<tr>
<td>Biology</td>
<td>3.5</td>
<td>6 credit hours of BIO 395, Research in Biology. A public presentation of one’s research results. Such a presentation can be a journal article, a seminar given to a diverse group, a talk or poster at a professional meeting, a thesis, or some form of public presentation approved by the Director of Undergraduate Studies in Biology.</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3.5</td>
<td>12 hours in CHE or BCH courses (other than CHE 440G, 441G, and 572) at or above the 300 level. At least 6 of those hours must be in CHE 395. 3.5 cumulative GPA and 3.5 major GPA or above.</td>
</tr>
<tr>
<td>Classics</td>
<td>3.5</td>
<td>3.5 cumulative GPA or above and the completion of 300-level course in Greek or Latin with a grade of B or above.</td>
</tr>
<tr>
<td>Economics</td>
<td>3.2</td>
<td>3.2 cumulative GPA or above and 3.2 major GPA.</td>
</tr>
<tr>
<td>English</td>
<td>3.75</td>
<td>1) 3.75 cumulative GPA or above in courses taken at UK which count or could count toward the English major and premajor. 2) At least 8 such courses taken at UK (i.e., not transferred).</td>
</tr>
<tr>
<td>FLIE-French</td>
<td>3.5</td>
<td>3.5 cumulative GPA and a 3.75 major GPA or above.</td>
</tr>
<tr>
<td>FLIE-German</td>
<td>3.5</td>
<td>3.5 cumulative GPA or above.</td>
</tr>
<tr>
<td>FLIE-Japanese</td>
<td>3.5</td>
<td>3.5 cumulative GPA and a 3.75 major GPA or above.</td>
</tr>
<tr>
<td>FLIE-Russian</td>
<td>3.5</td>
<td>3.5 cumulative GPA and a 3.75 major GPA or above.</td>
</tr>
<tr>
<td>FLIE-Spanish</td>
<td>3.5</td>
<td>3.5 cumulative GPA or above in 300-500 level Spanish courses.</td>
</tr>
<tr>
<td>French</td>
<td>3.5</td>
<td>3.5 cumulative GPA and a major GPA of 3.75 or above.</td>
</tr>
<tr>
<td>Geography</td>
<td>3.5</td>
<td>3.5 cumulative GPA and major GPA of 3.5 or above. Students should express their interest with graduating with Departmental Honors in a short letter to the Director of Undergraduate Studies in Geography before the last semester of course work begins.</td>
</tr>
<tr>
<td>Geology</td>
<td>3.5</td>
<td>3.3 cumulative GPA and senior thesis or 3.5 cumulative GPA or above.</td>
</tr>
<tr>
<td>German</td>
<td>3.5</td>
<td>3.5 cumulative GPA or above.</td>
</tr>
<tr>
<td>History</td>
<td>3.3</td>
<td>3.3 cumulative GPA or above and successful completion of the HIS 470/471 sequence with grades of A or B in both courses.</td>
</tr>
<tr>
<td>Latin American Studies</td>
<td>3.5</td>
<td>3.5 cumulative GPA or above in 300-500 level Latin American Studies and Spanish courses.</td>
</tr>
<tr>
<td>Linguistics</td>
<td>3.75</td>
<td>3.75 cumulative GPA or above in courses taken at UK which count or could count toward the linguistics major and premajor. At least 8 such courses taken at UK (i.e., not transferred).</td>
</tr>
<tr>
<td>Mathematical Economics</td>
<td>3.2</td>
<td>3.2 cumulative GPA or above and 3.2 major GPA or above.</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3.5</td>
<td>3.5 cumulative GPA or above.</td>
</tr>
<tr>
<td>Philosophy</td>
<td>3.5</td>
<td>3.5 cumulative GPA or above.</td>
</tr>
<tr>
<td>Physics</td>
<td>3.4</td>
<td>3.4 cumulative GPA or above and 3.4 major GPA or above in physics and astronomy. All students awarded department honors will have fully participated in independent study or research including the preparation of a final report; participation with a high grade in a three-credit-hour PHY 395 or participation in a summer research experience are ways of achieving this. Other factors such as citizenship, leadership in the Society of Physics Students, and other meritorious activity will be considered in the selection of seniors for graduation with honors.</td>
</tr>
<tr>
<td>Political Science</td>
<td>3.5</td>
<td>3.5 cumulative GPA or above, and successful completion of an honors thesis. Students normally fulfill the thesis requirement by taking PS 490, Honors in Political Science, offered during the spring semester. Should that option be unavailable, however, students might be able to arrange writing a thesis under faculty guidance as part of PA 395, the department’s Independent Study course.</td>
</tr>
<tr>
<td>Psychology</td>
<td>3.5</td>
<td>3.5 major GPA or above and either successfully completing of PSY 495 and PSY 496 or serving as PSI CHI president or PSI CHI vice president.</td>
</tr>
<tr>
<td>Russian Studies</td>
<td>3.5</td>
<td>3.5 cumulative GPA and a 3.75 major GPA or above.</td>
</tr>
<tr>
<td>Sociology</td>
<td>3.5</td>
<td>3.5 cumulative GPA or above.</td>
</tr>
<tr>
<td>Spanish</td>
<td>3.5</td>
<td>3.5 cumulative GPA or above in 300-500 level Spanish courses.</td>
</tr>
<tr>
<td>Topical</td>
<td>3.6</td>
<td>3.6 cumulative GPA or above and recommendation of the Associate Dean based on the final thesis.</td>
</tr>
</tbody>
</table>
.College of Arts and Sciences

College Requirements for a Bachelor of Science Degree

It is important to review the "NOTES" section that immediately follows the "College Requirements for a Bachelor of Science Degree" section.

To receive the Bachelor of Science degree, students must:
1. Complete the University Studies program (USP) requirements.
2. Complete the following college requirements:
   a. Foreign Language Requirement. Students must satisfy one of the following options:
      1. satisfy the third and fourth semester of a college-level sequence in one language (including sign language) by successfully completing each semester course, or by demonstrating equivalent competency on a departmentally approved placement exam; or
      2. successfully complete three college-level semester courses in one language and two college-level semester courses in a second language. (Two college-level semester courses are considered equal to two years of a foreign lan-
      guage in secondary school. No other equivalencies are given for more years of foreign language as indicated on transcripts), or demonstrate equivalent competency on a departmentally approved placement exam (all options include sign language); or
   b. Students must take three college hours in disciplines in the natural sciences; or
   c. Students must take three college hours in disciplines in the social sciences; or
   d. Students must take three college hours in disciplines in the humanities.
3. Complete at least 120 credit hours in courses acceptable to the College of Arts and Sciences.
4. Complete at least 90 credit hours in Arts and Sciences courses.
5. Complete at least 39 credit hours in courses numbered at or above the 300 level.
6. Complete at least six credit hours of premajor courses in the departmental major. This is not required for the Topical Studies Major or the Foreign Language and International Economics Major.
7. Complete at least 42 credit hours within the major and courses outside the major (excluding premajor course work). At least 24 of these hours must be at or above the 300 level.
8. Complete at least one course in disciplines from the natural sciences or social sciences that includes some laboratory or field experience. See the description of the College Laboratory or Field Experience Requirement which follows.
9. Attain an overall grade-point average of at least 2.0.
10. Attain a grade-point average of at least 2.0 in all major requirements courses (including all premajor requirements).
11. Complete a minimum of six credit hours of free electives. These college electives cannot be counted towards University Studies Program or any other Arts and Sciences major or college requirements.
12. Complete University graduation requirements: Inference Requirement, University Writing Requirement (which includes the First Year Writing Requirement and the Graduation Writing Requirement), and the residence requirement.

ΝOTES
1. See the University Studies Program section of this Bulletin for a detailed explanation of the requirements.
2. Physical education one-hour service courses (KHP) are acceptable as electives only and may count toward the total 120 minimum hours needed to graduate. Only one successful completion of multiple completions of the same KHP course will count.
3. A maximum of 16 semester credit hours earned in military science (AMS) and aerospace studies (AFS) are acceptable towards fulfilling both the College 90-hour and 120-hour requirement for the B.A. or B.S. degree. AMS/HIS 320 is not included in this 16-hour limit.
4. A maximum of 12 semester credit hours earned in experiential education and internship courses (EXP 396, departmental 399 courses) will be accepted. For ANT 399, SOC 399 and SPA 399, a maximum of 15 semester credit hours can be earned. See Experiential Education and Internship Course section within the Arts and Sciences section of the Bulletin.
5. All courses offered by the College of Arts and Sciences are acceptable with the exception of MA 108R.
6. Courses transferred from other institutions and judged by the Assistant Dean of Undergraduate Affairs to be equivalent or comparable to Arts and Sciences courses are acceptable.
Students may count any hours in excess of six (six being the requirement for completing the Natural Sciences area of the Disciplinary Requirement for the University Studies Program) toward fulfillment of the “college hours” required in Arts and Sciences in the Natural Sciences area of the USP Disciplinary Requirement. This will be on an “hours” basis rather than on a “course number” basis. Students may find themselves with one to four credits available for use in meeting the college hours requirement in Natural Sciences. This course work beyond the six hours of USP will apply to all Arts and Sciences students regardless of where the course work was completed, i.e., main campus or transfer credit. This rule applies only to the A&S Natural Sciences area.

Social Sciences
1. All courses offered by Arts and Sciences departments or programs within the disciplines of the social sciences including courses with the following department prefixes: AC, ANT, APP, ECO, GEO, GWS, PS, PSY, SOC.

2. The following courses may also be used to satisfy the Arts and Sciences College requirement for course work within the discipline of social sciences:
   - AAS 200, 235, 328, 417G, 432, 471
   - ANT/LIN 319
   - ANT/ENG/LIN 515
   - ANT/ENG/LIN 516
   - ANT/JPN 231
   - CGS 500
   - ENS 200, 400
   - GEO/JPN 334
   - GEO/JPN 551

3. The following course may NOT be used in the social sciences area: GWS 201.

Humanities
1. Excluding the courses listed below, all courses offered by Arts and Sciences departments or programs within the disciplines of the humanities, including courses with the following prefixes: A-H, AAS, CLA, ENG, FR, GER, HIS, HON, JPN, LAS, LIN, PHI, RS, RUS, SPA.

2. The following courses may NOT be used in the humanities area:
   - AIS 101, 102, 201, 202, 442, 443
   - CHI 101, 102, 201, 202
   - CLA 101, 102, 131, 151, 152, 201, 202, 251, 252
   - GER 011, 101, 102, 201, 202, 205, 206, 211, 212, 213, 307, 308, 310, 507, 553, 612
   - HIS 101, 102, 201, 202
   - ITA 101, 102, 201, 202
   - JPN 101, 102, 201, 202, 301, 302, JPN/GEO 334, JPN/GEO 551
   - LIN 520, 521
   - PHI 120, 122
   - RUS 101, 102, 201, 202, 301, 302, 303, 403, 404, 501, 502
   - SPA O11, 101, 102, 103, 141, 142, 201, 202, 203, 210, 211, 241, 242, 302, 313, 413, 501, 506, 553

3. The following courses may also be used to satisfy the Arts and Sciences College requirement for course work within the discipline of humanities:
   - AMS 201
   - ANT 319, 515, 516
   - ART 100
   - CGS 500
   - GWS 201, 506
   - MUS 203, 222, 301, 302, 303, 325

College Laboratory or Field Experience Requirement

The college requires its students to complete at least one course which includes some laboratory or field experience. In such courses the external world is observed in a controlled manner using systematic techniques and methods. A substantial portion of the course must include data collection, data analysis, and hypothetical testing under supervised conditions. The approved courses for the laboratory requirement are:

Natural Sciences
- Biology – BIO 105*, 107*, 111, 151, 153, 209
- Chemistry – CHE 106, 111, 113, 115
- Physics – PHY 211, 213, 241, 242
- Geological Sciences – GY 111, 112*, 115, 220
- *Offered only at KCTCS.

Social and Behavioral Sciences
- Anthropology – ANT 541, 585
- Geography – GEO 300
- Political Science – PS 372
- Psychology – PSY 100, 215
- Sociology – SOC 302, 303

When appropriate, other upper level courses may be used to satisfy this requirement by petition.

MAJOR REQUIREMENTS

A major in the College of Arts and Sciences is composed of premajor courses (except Foreign Language and International Economics and Topical Studies majors) and a 42-hour program referred to as the “major requirements.” Each department has specified the requirements for their majors, which includes a minimum of 18 hours of 200-level and above courses in that department, with the provision that this minimum may be set at 15 hours by a department with approval of the Arts and Sciences Educational Policy Committee and the Undergraduate Council if there are special reasons for a lower minimum. Specific requirements for each departmental major are listed in this Bulletin under each department heading and are outlined in APEX (the electronic degree audit system) at www.uky.edu/ degreeaduit/.

General requirements are as follows:
1. A premajor of at least 6 credits in the department is required, except for Topical Studies Majors and Foreign Language and International Economics Majors.
2. A total of 42 credits is required in the major requirements, excluding the premajor courses.
3. 100-level courses may not be counted in the major requirements except in the area of premajor.
4. Courses electively taken pass-fail will not be listed.
5. At least 24 credits must be in courses at the 300 level or above.
6. In addition to premajor requirements, a minimum of 18 credits in a department is required for a major.
7. At least 14 credits for the major requirements must be outside the major department.
8. An overall grade-point average of at least 2.0 in all courses listed for the major requirements, including all premajor courses. This includes all grade attempts except those used for which repeat options or academic bankruptcy has been approved.

Students are expected to review and understand all degree requirements listed on the University’s online degree audit system, APEX.

Students who have taken courses (200 level or above) outside the college should talk with their faculty advisor to see if these courses are applicable to their major requirements.

Topical Studies Majors

Students who have multiple interests or interests which do not fall into departmental areas may select a topic for concentration instead of a departmental major. Topical Studies offers academic flexibility and allows students to cut across departmental and college lines in constructing meaningful and imaginative programs. Courses in several departments might be selected to pursue special interests—Asian studies, for instance. Other examples might be African American studies, human studies, and gender and women’s studies.

Each topical studies major is designed and directed by the student in consultation with a faculty advisor in the general area of study, and in consultation with the topical studies advisor in the A&S Advising Center and an Arts and Sciences Associate Dean.

Topical Studies is the only selective admission program in the College of Arts and Sciences. The student must have a cumulative UK grade-point standing of at least 2.5 to be accepted to Topical Studies. The specific requirements of the topical studies major are that the student must meet University and College requirements, must enroll in and complete at least 30 credit hours after formal admission, and complete the 42-hour major requirements (see preceding section entitled “Major Requirements”). Except for electives, all of the student’s work must be related to the topic. Additionally, in the senior year, the student must complete a comprehensive paper or project that serves to integrate his or her topical studies field. Frequently, it is advantageous to begin writing this paper or project in the context of an independent work course or a seminar, with the instructor’s approval. The paper or project proposal must be approved by the faculty advisor, an Arts and Sciences Associate Dean, and the Topical Studies advisor before significant work has begun on the project. Students must submit the final paper or project for review and approval no later than eight weeks before finals during the semester the student intends to graduate. The paper should be submitted to the Associate Dean no later than six weeks before the final exam week during the semester the student intends to graduate. Departmental honors for topical studies majors are determined by the Associate Dean and the Topical Studies advisor. To be eligible for departmental honors, a student must have a cumulative GPA of at least 3.6 and a final paper or project that has been judged to be outstanding.

For more information, contact the Arts and Sciences Topical Studies advisor in the A&S Advising Center (257 Patterson Office Tower); or visit the Topical Studies major Web site at: www.as.uky.edu/Admin/.

A Second Major

A student may obtain a second major by meeting all requirements in two departments. Major work in one department can, if there is a generic relationship, serve as the outside field in the second major, and vice versa. The student must indicate his or her second major to the A&S Advising Center, 257 Patterson Office Tower. He or she must have an advisor in both departments. If one of the majors is in another college, the student is still required to know the list of requirements from the other college. The student who completes requirements for a second major will receive only one degree, but his or her transcript and diploma will reflect the two majors.

For information on second majors (not the same as second degrees), consult the Academic Requirements section of this Bulletin.

A Second Bachelor’s Degree

A student may obtain a second bachelor’s degree by completing all university requirements for one degree; by completing all the major requirements of both degrees; and by completing all college requirements of both degrees. Courses taken towards fulfilling one degree may also count towards fulfilling parallel requirements in the other, but the total credits in the two degree programs must be at least 144 hours. Major work in one department can, if there is a generic relationship, serve as the outside field in the second major and vice versa. The student must indicate his/her double degree in his/her primary college. If both degrees are in Arts and Sciences, he or she must have an advisor in both departments. The student may elect to receive the degrees simultaneously, if college and departmental requirements can be met simultaneously. For information regarding double degrees (not the same as double majors), consult the Academic Requirements section of this Bulletin. Students are expected to be knowledgeable of requirements for any major in Arts and Sciences by checking the University’s online degree audit system, APEX.

Minors

The College of Arts and Sciences does not require minors. However, students can earn a minor in the following disciplines in the college:

- anthropology
- biological sciences
- chemistry
- classical civilization
- economics
- English
- folklore and mythology
- French
- geography
- geology
- German
- Greek
- history
- Latin
- Latin American studies
- linguistics
- mathematics
- philosophy
- physics
- political science
- psychology
- Russian
- sociology
- Spanish
- statistics

Interdisciplinary minors are also available in:

- African American studies
- American studies
- Appalachian studies
- cognitive science
- environmental studies
- gender and women’s studies
- Indian culture
- Islamic studies
- Japan studies
- Judaic studies

Minors can only be awarded in conjunction with a UK undergraduate degree. Additionally, students cannot pursue a minor in the same discipline as their major. This includes the area of concentration for a Topical Studies Major and Foreign Language and International Economics Major.

For more information about choosing or declaring a minor, students should review the requirements in APEX at: www.uky.edu/degreeaudit/; contact the department where the minor is offered; and/or consult the departmental section of this Bulletin. To officially declare a minor, students must complete a Declaration/Change of Major or Minor form in the A&S Advising Center, 257 Patterson Office Tower.

Awarded minors appear on the student’s final transcript but not on their diploma.

The Preparation of Teachers

Any Arts and Sciences student intending to seek teaching certification should so indicate to his or her faculty advisor. The student should also contact the College of Education, 166 Taylor Education Building. As soon as the student has determined to seek certification he or she is assigned an advisor both in the College of Education and in the major department in the College of Arts and Sciences.
INFORMATION ON COURSES

Transfer of Kentucky Community and Technical College System (KCTCS) Courses

The college will usually apply up to six hours of technical course work taken at any accredited institution including KCTCS. Beyond these six credit hours, courses will be evaluated on an individual basis and as it applies to the student’s baccalaureate degree program.

Independent Work Courses

A junior or senior may, with prior approval of his or her faculty advisor and the instructor who would direct the work, register for an independent work course in his or her major department. Normally, a cumulative GPA of 3.0 in the major is required. In exceptional circumstances a nonmajor or topical studies major may be permitted to enroll in a departmental independent work course. Such a course is characterized by special assignments for study, regular conferences, reports, and usually involves preparation of a paper. The instructor in each case must file with the department evidence of the nature of the work achieved. Credit for such courses may be granted to undergraduates to an amount of not more than 12 hours.

Experiential Education and Internship Courses

The College of Arts and Sciences accepts experiential education and internship courses (such as EXP 396, departmental 399 courses,) on a pass-fail basis only, regardless of which college is offering the courses. A total of 12 credit hours in these courses may be counted toward the 120 credit hours required for graduation. For ANT 399 and SPA 399, a maximum of 15 semester credit hours can be earned. However, College of Arts and Sciences majors may only earn a maximum of six credit hours of experiential education credit (EXP) in one semester.

ROTC Program

A maximum of 16 semester credit hours earned in American Military Studies and Air Force Studies courses will be accepted toward fulfilling the 90 hours of A&S courses required and the 120 minimum number of hours needed for graduation with a baccalaureate degree in the College of Arts and Sciences, even though students typically enroll for more than 16 semester credit hours of AMS and AFS course work. However, credit received from taking AMS/HIS 320, American Military History, can apply in addition to the 16 credit hour limit earned in AMS or AFS course work. Additionally, AMS 350 (1 credit hour) can only be counted for a maximum of 4 credit hours. Please note that a maximum of one credit hour of KHP 107 will count toward degree requirements, regardless how many credits are earned.

AEROSPACE STUDIES (Air Force ROTC)

The Department of Aerospace Studies provides a campus education program through which qualified students can simultaneously earn an Air Force commission and a college degree. Faculty members are experienced, active duty Air Force officers with advanced degrees.

Admission to the Program

Non-scholarship freshmen and sophomores may register for Air Force Studies (AFS) courses without incurring a military commitment.

Sophomores and other students with four semesters of school remaining in a graduate or undergraduate status may qualify to enter the two-year program, which places them directly into the Professional Officer Course (POC) after completion of field training. The applicant must complete the Air Force Officer Qualifying Test, a medical evaluation, a physical fitness test, an interview with a board of Air Force officers, and be selected by AFROTC Headquarters.

Applicants for the POC attend a four- or six-week field training session during the summer usually preceding the semester they will enter the POC. Cadets who have completed the first two years of AFROTC attend a four-week camp; those who have not attend for six weeks.

Cadets receive travel pay to and from field training and are paid for their time there.

Requirements

An academic major in aerospace studies is not offered. However, by successfully completing either the two-year or the four-year Air Force ROTC program, a qualified student may concurrently earn a commission as an active duty Air Force Second Lieutenant while completing requirements for a degree. A student may enroll in any Air Force ROTC course at the same time that registration for other undergraduate courses is accomplished.

AFROTC Curriculum

The AFROTC curriculum consists of both academic classes and leadership laboratory or seminar classes. The General Military Course (GMC) is a two-year course normally taken during the freshman and sophomore years. The Professional Officer Course (POC) is a two-year course normally taken during the junior and senior years. Along with academic classes each semester the GMC and POC also take leadership laboratory classes.

In the GMC, there are four academic classes (AFS 111, AFS 113, AFS 211, and AFS 213). These cover two main themes—the development of air power and the contemporary Air Force in the context of the U.S. military organization. The GMC academic classes are open to any student.

In the POC, there are four academic classes (AFS 311, AFS 313, AFS 411, and AFS 413). These cover Air Force management and leadership and American defense policy. Entry into the POC is competitive and is based on Air Force Officer Qualifying Test scores, grade-point averages, and evaluation by the Professor of Aerospace Studies. Only physically qualified students in good academic standing may compete for entry into the POC.

Students enrolled as cadets in the two-year or four-year program are involved once a week in a one-credit-hour course in the cadet corps training program designed to simulate a typical Air Force organization and its associated functions. During the GMC, the courses are called leadership seminars and include AFS 112, AFS 114, AFS 212, and AFS 214. The POC leadership laboratory classes are AFS 312, AFS 314, AFS 412, and AFS 414. The leadership laboratories are largely cadet-planned and conducted under the concept that they provide leadership training experiences that will improve the cadets’ capabilities as Air Force officers. This also involves two hours of physical training each week, normally from 6:30 to 7:30 A.M. Leadership laboratory is open to students who are members of the Air Force Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

Field Training

Field training is offered at Air Force bases across the country. The student receives junior officer training and leadership development with other students, and the Air Force has an opportunity to evaluate each student as a potential member of its officer corps. Field training courses include cadet orientation, survival training, officer training, aircraft and aircrew orientation, physical training, organizational and functional aspects of an Air Force base, career orientation, small arms familiarization, first aid, and other supplemental training. Students are paid for their time at field training.

Scholarships

Students interested in AFROTC scholarships should refer to the Student Financial Aid, Awards, and Benefits section of this Bulletin or call (859) 257-7115. Information is current as of February 2007 and is subject to change.

ANTHROPOLOGY

The Department of Anthropology offers opportunities to learn about the diverse people of today’s world, as well as about their biological and cultural origins. This area of study deals with ecology, society, biology, culture, and language, among other aspects of human life. In addition, anthropologists study history and evolution in both a cultural and biological framework.
Anthropology provides an excellent foundation for careers in a variety of professions and occupations, including community health, public health policy, medicine and health services, planning and community development, international relations and development, private business, government, law, journalism, museum work, and university teaching and research.

Students can major or minor in anthropology. The major is structured to provide the student with a broad overview of the major subdisciplines: cultural anthropology, physical anthropology and archaeology. It also allows sufficient flexibility for a student to concentrate on a specific area of interest.

Visit our Web site at: www.uky.edu/AS/Anthropology.

**Bachelor of Arts with a major in ANTHROPOLOGY**

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

**University Studies Program Requirements**

I. Math ................................................................. 0-3
II. Foreign Language ............................................... 0-8
III. Inference – Logic ............................................... 3-6
IV. Written Communication .................................... 0-4
V. Oral Communication* (partially completed by Major Requirements) .................................. 1
VI. Natural Sciences ............................................... 6
VII. Social Sciences ............................................... 6
VIII. Humanities ............................................... 6
IX. Cross-Cultural (choose a 300+ level Humanities course) .................................................. 3
X. Electives (choose a Natural Science and a 300+ level Humanities course) ...................... 6

USP hours: ................................................................ 31-49

**Graduation Writing Requirement**

ANT 582, required in the Major Core Requirements, satisfies the Graduation Writing Requirement.

**Graduation Writing Requirement Hours**: .................................................. 3

**College Requirements**

I. Foreign Language (placement exam recommended) ...................................................... 0-8
II. Disciplinary Requirements
   a. Natural Science (completed by Premajor and USP Elective Requirements) .................. 0-8
   b. Social Science (completed by Premajor Requirements)
   c. Humanities (completed by USP Cross-Cultural and Elective Requirements)
III. Laboratory or Field Work (can be completed by Major Requirement)
IV. Electives ........................................................................ 6

**College Requirement Hours**: .................................................. 6-14

**Premajor Requirements**

> ANT 220 Introduction to Cultural Anthropology .................................................. 3
> ANT 230 Introduction to Physical Anthropology .................................................. 3
> ANT 240 Introduction to Archaeology ............................................................... 3

**Subtotal: Premajor Hours**: .................................................. 9

**Major Requirements**

**Course Work Required for the Major**

**From the Major Department:**

Regional Focus ........................................................................................................ 6
Choose two courses from the following: ANT 221, 241, 242, 320, 322, 323, 324, 327, 342, 431G, 534, 555.

**Subdisciplinary Breadth** .................................................................................. 9
Choose three courses from at least two of the following subdisciplines:

1. **Archaeology**
   - ANT 241, 242, 320, 322, 342, 541, 545, 555 and 585
2. **Cultural Anthropology**
   - ANT 340, 401, 429, 433, 525, 526, 532, 538 and 550
3. **Physical Anthropology**
   - ANT 332, 333

**NOTE:** ANT 350, 399, 580, 581 and other ANT courses not listed here may be used to fulfill the Regional Focus and/or Subdisciplinary Breadth requirements with the consent of the Director of Undergraduate Studies.

**From Outside the Major Department**

Choose 15 hours outside Anthropology at the 300+ level. 200+ level courses used to satisfy USP and College Requirements can also be counted here.

**Subtotal: Other Major hours**: .................................................. 30

**Major Core Requirements**

ANT 301 History of Anthropological Theory .................................................. 3
ANT course related to student’s Focus of Concentration ........................................ 3
ANT 490 Anthropological Research Methods or
   - ANT 541 Archaeological Method and Theory or
   - ANT 585 Field Laboratory in Archaeological Research .................................. 3
*ANT 582 Senior Integrative Seminar ............................................................... 3

**Subtotal: Major Core Hours**: .................................................. 12

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation .................................................. 4

**Total Minimum Hours Required for Degree**: .................................................. 120

> Course used towards completion of a USP or College Requirement

*Note: COM 199 + ANT 582 satisfy the Oral Communication Requirement.

**Bachelor of Science with a major in ANTHROPOLOGY**

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an ANT prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

**University Studies Program Requirements**

I. Math ................................................................. 0-3
II. Foreign Language ............................................... 0-8
III. Inference – Logic ............................................... 3-6
IV. Written Communication .................................... 0-4
V. Oral Communication* (partially completed by Major Requirements) .................. 1
VI. Natural Sciences ............................................... 6
VII. Social Sciences ............................................... 6
VIII. Humanities ............................................... 6
IX. Cross-Cultural (choose a Humanities course) .................................................. 3
X. Electives (choose six hours of Natural Science courses) .................................. 6

USP hours: ................................................................ 31-49

**Graduation Writing Requirement**

ANT 582, required in the Major Core Requirements, satisfies the Graduation Writing Requirement.

**Graduation Writing Requirement Hours**: .................................................. 3

**College Requirements**

I. Foreign Language (placement exam recommended) .................................................. 0-8
II. Disciplinary Requirements
   a. Natural Science (completed by Premajor Requirement)
   b. Social Science (completed by Premajor Requirement)
   c. Humanities (completed by USP Cross-Cultural Requirement)
III. Laboratory or Field Work (can be completed by Major Requirement)
IV. Electives ........................................................................ 6

**College Requirement Hours**: .................................................. 6-14

**Premajor Requirements**

> ANT 220 Introduction to Cultural Anthropology .................................................. 3
> ANT 230 Introduction to Physical Anthropology .................................................. 3
> ANT 240 Introduction to Archaeology ............................................................... 3

**Premajor hours**: .................................................. 9

**Major Requirements**

**Course Work Required for the Major**

**From the Major Department:**

Regional Focus ........................................................................................................ 6
Choose two courses from the following: ANT 221, 241, 242, 320, 322, 323, 324, 327, 342, 431G, 534, 555.

**Subdisciplinary Breadth** .................................................................................. 9
Choose three courses from at least two of the following subdisciplines:

1. **Archaeology**
   - ANT 241, 242, 320, 322, 342, 541, 545, 555 and 585
2. **Cultural Anthropology**
   - ANT 340, 401, 429, 433, 525, 526, 532, 538 and 550
3. **Physical Anthropology**
   - ANT 332, 333

**NOTE:** ANT 350, 399, 580, 581 and other ANT courses not listed here may be used to fulfill the Regional Focus and/or Subdisciplinary Breadth requirements with the consent of the Director of Undergraduate Studies.

**From Outside the Major Department**

Choose 15 hours outside Anthropology at the 300+ level. 200+ level courses used to satisfy USP and College Requirements can also be counted here.

**Subtotal: Other Major hours**: .................................................. 30
Major Core Requirements
ANT 301 History of Anthropological Theory ............... 3
ANT course related to student’s Focus of Concentration .................. 3
ANT 490 Anthropological Research Methods or
ANT 541 Archaeological Method and Theory or
ANT 585 Field Laboratory in Archaeological Research .................. 3
*ANT 582 Senior Integrative Seminar .................. 3
Subtotal: Major Core Hours: ................. 12

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation ................. 4

Total Minimum Hours
Required for Degree ................. 120

*Course used towards completion of a USP or College Requirement.
*Note: COM 199 + ANT 582 satisfy the Oral Communication Requirement.

Minor in Anthropology
Students must complete a total of 21 hours of course work:
Preminor Courses (9 hours)
Students must take ANT 220, 230, 240.
Additional Courses (12 hours)*
Students must take four ANT courses from at least two subdisciplines. Two courses must be at the 200 level or above and two courses must be at the 300 level or above.
*ANT 350, 399, 580, 581 and other ANT courses not listed here may be used to fulfill the Additional Courses requirement with the consent of the Director of Undergraduate Studies.

Courses taken to meet a requirement in one area cannot be used to meet a requirement in another area of the minor.

BIOLOGY
To address the breadth and depth essential to educating biologists, the biology major is structured to include both a broad foundation through core courses and opportunity for specialization within a biological subfield through biology electives. The major is designed to prepare the student for a post-baccalaureate profession in biology, for advanced professional training in the health sciences, or for graduate study in basic and applied areas of the biological sciences.

Bachelor of Arts with a major in BIOLOGY
128 hours (minimum)
Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements
I. Math (completed by Premajor Requirement)
II. Foreign Language (placement exam recommended) ........................................ 0-8
III. Inference-Logic (completed by Premajor Requirement)
IV. Written Communication ........................................ 0-4
V. Oral Communication ........................................ 0-4
VI. Natural Sciences (completed by Premajor Requirements)
VII. Social Sciences ........................................ 6
VIII. Humanities ........................................ 6
IX. Cross-Cultural (choose a Humanities course) .... 3
X. Electives (choose two Social Science courses) .... 6

USP hours: .................. 24-36

Graduation Writing Requirement
After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: ............. 3

College Requirements
I. Foreign Language (placement exam recommended) .................. 0-8
II. Disciplinary Requirements
a. Natural Science (completed by Premajor Requirements)
b. Social Science (completed by USP Elective Requirement)
c. Humanities (completed by Premajor Requirement)

III. Laboratory or Field Work (completed by Premajor Requirement)
IV. Electives ........................................ 6

College Requirement Hours: .............. 9-17

Premajor Requirements
*MA 123 Elementary Calculus and its Applications or
*MA 113 Calculus I ........................................ 3-4
*CHE 105 General Chemistry I ................................ 3
*CHE 107 General Chemistry II ................................ 3
*CHE 111 Laboratory to Accompany General Chemistry I or
*CHE 113 Laboratory to Accompany General Chemistry II ........................................ 3-4
*BIO 150 Principles of Biology I ................................ 3
BIO 151 Principles of Biology Laboratory I ....................... 2
BIO 152 Principles of Biology II ................................ 3
BIO 153 Principles of Biology Laboratory II ....................... 2

Premajor hours: .................. 22-23

Major Requirements
Major Core Requirements
BIO 304 Principles of Genetics .................................... 4
BIO 315 Introduction to Cell Biology ................................ 3
BIO 325 Introductory Ecology .................................... 4
*BIO 350 Animal Physiology .................................... 4
BIO 425 Biology Seminar or
BIO 499 Biology Research Seminar ................................ 1
*Students with a strong interest in plants may substitute BIO 430G for BIO 350 with the approval of faculty advisor.

Major Core hours: .................. 16

Other Course Work Required for the Major
From the Major Department:
To be chosen from 200+ level BIO courses (excluding BIO 208) or the list below. Two courses must contain a laboratory component. Six hours of Independent Research (395) from biological sciences departments may be counted here; however, only BIO 395 is accepted for honors in biology. Note that ANA 209, BIO 208 and PGY 206 cannot be used for this requirement ............. 16

A&S 300, 500 (when offered by the Department of Biology)
ABT 301, 395, 460, 461, 495
ANA 395, 511, 512
ANT 332
ASC 164, 378, 395
BCH 395, 401G, 503, 517
BIO – all 200+ level courses except BIO 208
ENT 300, 310, 320, 395, 402, 460, 461, 561, 562, 564, 568
FOR 315, 340, 375, 402
FSC 530
GLY 401G
MI 494G, 595, 598
NRC 320, 395, 420G, 450G, 455G
PGY 412G, 502, 560, 590
PPA 395, 4000, 503
PSY 312, 456, 459, 552, 558, 565
STA 241, 291, 292, 503, 570, 580 (Generally only one statistics course is accepted. Other STA courses may be accepted at the discretion of your advisor, and this may depend upon the area of biology in which you choose to specialize.)
TOX 308, 309, 560
VS 395
From Outside the Major Department
Choose either CHE 230/231/232 or
CHE 226/231 and BCH 401G .................. 8
Choose either PHY 211/213 or
PHY 231/232/241/242 .................. 10
Other Major hours: .................. 34

Total Minimum Hours
Required for Degree .................. 128

*Course used towards completion of a USP or College Requirement.

Bachelor of Science with a major in BIOLOGY
122 hours (minimum)
Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements
I. Math (completed by Premajor Requirement)
II. Foreign Language (placement exam recommended) .................. 0-8
III. Inference-Logic (completed by Premajor Requirement)
IV. Written Communication ........................................ 0-4
V. Oral Communication ........................................ 0-4
VI. Natural Sciences (completed by Premajor Requirements)
VII. Social Sciences ........................................ 6
VIII. Humanities ........................................ 6
IX. Cross-Cultural (choose a Humanities course) .... 3
X. Electives (choose a Social Science course) .... 3

USP hours: .................. 21-33
Graduation Writing Requirement
After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: . 3

College Requirements
I. Foreign Language (placement exam recommended) ........................................................ 0-8
   a. Natural Science (completed by Premajor Requirements)
   b. Social Science (completed by USP Elective Requirement)
   c. Humanities (completed by USP Cross-Cultural Requirement)
II. Laboratory or Field Work (completed by Premajor Requirement)
III. Electives ................................................................. 6
   College Requirement hours: ................................. 6-14

Premajor Requirements
*MA 123 Elementary Calculus and its Applications or
*MA 113 Calculus I ....................................................... 3-4
*CHE 105 General Chemistry I ......................................... 3
*CHE 107 General Chemistry II ....................................... 3
*CHE 111 Laboratory to Accompany
   General Chemistry I .................................................. 1
   General Chemistry II .................................................. 2
*BIO 150 Principles of Biology I ...................................... 3
*BIO 151 Principles of Biology Laboratory I ..................... 2
*BIO 152 Principles of Biology II .................................... 3
*BIO 153 Principles of Biology Laboratory II ................... 2
   Premajor hours: .................................................. 22-23

Major Requirements
Major Core Requirements
BIO 304 Principles of Genetics .................................... 4
BIO 315 Introduction to Cell Biology ................................ 3
BIO 325 Introductory Ecology ....................................... 4
*BIO 350 Animal Physiology ........................................ 4
*BIO 425 Biology Seminar or
*BIO 499 Biology Research Seminar ................................ 1
*Students with a strong interest in plants may substitute
   BIO 430G for BIO 350 with the approval of faculty advisor.

   Major Core hours: ................................................. 16

Other Course Work Required for the Major
From the Major Department:
To be chosen from 200+ level BIO courses (excluding BIO 208) or the list below. Two courses must contain a laboratory component. Six hours of Independent Research (395) from biological sciences departments may be counted here; however, only BIO 395 is accepted for honors in biology. Note that ANA 209, BIO 208, and PGY 206 cannot be used for this requirement ........................................... 16

A&S 300, 500 (when offered by the Department of Biology)

   ABT 301, 395, 460, 461, 495
   ANA 395, 511, 512
   ANT 332
   ASC 364, 378, 395
   BCH 395, 401G, 503, 517
   BIO 150 Principles of Biology I ...................................... 3
   BIO 151 Principles of Biology Laboratory I ..................... 2
   BIO 152 Principles of Biology II .................................... 3
   BIO 153 Principles of Biology Laboratory II ................... 2

   Total Minimum Hours Required for Degree .................. 122
   *Course used towards completion of a USP or College Requirement.

Minor in Biological Sciences
A minimum of 21 semester hours is required for the minor in biological sciences, to be distributed as follows:

Preminor Requirements
BIO 150 Principles of Biology I ...................................... 3
BIO 151 Principles of Biology Laboratory I ..................... 2
BIO 152 Principles of Biology II .................................... 3
BIO 153 Principles of Biology Laboratory II ................... 2

Minor Requirements
Two courses from the following list:
BIO 304 Principles of Genetics .................................... 4
BIO 315 Introduction to Cell Biology ................................ 3
BIO 325 Introductory Ecology ....................................... 4
*BIO 350 Animal Physiology ........................................ 4
or BIO 340G Plant Physiology ....................................... 3
or BIO 476G General Microbial Physiology .................... 4
*Biological minor students with strong interests in plants may substitute
   BIO 340G for BIO 350 with advisor’s approval.

Minor Electives
Approved BIO or other courses at the 200 level or higher. Up to three hours of BIO 395, Research in Biology, may be counted here.

CHEMISTRY
The Department of Chemistry offers the Bachelor of Science degree for students who intend to become professional chemists or do graduate work in chemistry or a closely related discipline. There are two options in the B.S. program: a traditional version covering all the major areas of chemistry, and an option that emphasizes biochemistry. Both degree options are certified by the American Chemical Society. A Bachelor of Arts degree program also is offered for students who want greater flexibility in the selection of courses in other fields of science. The B.A. is designed particularly for students planning to enter the professional health fields, to teach in secondary schools, or to work in such varied areas as ecology, criminal justice, materials science, patent law, or technical service and sales. The Department also offers the Master of Science and the Doctor of Philosophy degrees.

Bachelor of Arts with a major in CHEMISTRY

120 hours (minimum)
Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. Please also note that the Organic Chemistry Sequence (CHE 230/231/232) will count towards completion of this requirement. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements
I. Math (completed by Premajor Requirement) .................................................. 0-8
II. Foreign Language (placement exam recommended) ........................................... 0-8
III. Inference–Logic (completed by Premajor Requirement) ................................... 0-4
IV. Written Communication .................................................. 0-4
V. Natural Sciences (completed by Premajor Requirements) .............................. 6
VI. Social Sciences ....................................................... 3
VII. Humanities ........................................................... 6
VIII. Cross-Cultural (choose a Humanities course) ............................................. 3
X. Electives (choose two Science courses) ......................................................... 6

USP hours: ....................................................... 21-33

Graduation Writing Requirement
After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: . 3

College Requirements
I. Foreign Language (placement exam recommended) ........................................... 0-6
II. Disciplinary Requirements
   a. Natural Science (completed by Major Requirements)
   b. Social Science (completed by USP Elective Requirement)
   c. Humanities (partially completed by USP Cross-Cultural Requirement) ........ 3
III. Laboratory or Field Work (completed by Premajor Requirement) .................. 3
IV. Electives ............................................................... 6
   College Requirement hours: .................................. 9-15

Premajor Requirements
MA 113 Calculus I or
MA 132 Calculus for the Life Sciences ................................................................. 3-4
MA 114 Calculus II ............................................................................. 4
CHE 105 General College Chemistry I ......................................................... 3
CHE 107 General College Chemistry II ......................................................... 3
CHE 111 Laboratory to Accompany
   General Chemistry I ........................................................................ 1
   CHE 113 Laboratory to Accompany
   General Chemistry II ....................................................................... 2
   Premajor hours: .......................................................... 16-17

Major Requirements
Major Core Requirements
CHE 226 Analytical Chemistry ................................................................. 3
CHE 230 Organic Chemistry I .................................................................. 3
MI 494G, 595, 598
NRC 320, 395, 420G, 450G, 455G
PGY 412G, 502, 560, 590
PPA 395, 400G, 503
PSY 312, 456, 459, 552, 558, 565
STA 281, 291, 292, 503, 570, 580 (Generally only one statistics course is accepted. Other STA courses may be accepted at the discretion of your advisor, and this may depend upon the area of biology in which you choose to specialize.)

TOX 508, 509, 560

VS 395
From Outside the Major Department
Choose either CHE 230/231/232 or
CHE 231/236 and BCH 401G ................................................................. 8
Choose either PHY 211/213 or
PHY 231/232/241/242 ........................................................................ 10

Other Major hours: ................................................................. 34

College of Arts and Sciences
### College of Arts and Sciences

<table>
<thead>
<tr>
<th>Major Core hours:</th>
<th>21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Course Work Required for the Major</td>
<td></td>
</tr>
<tr>
<td>Chemistry Major Field Options</td>
<td></td>
</tr>
<tr>
<td>Choose 21 hours at the 300+ level with a prefix of ANA, BCH, BIO, CHE, CME, CS, GLY, MA, ML, MSE, PAT, PYG, PHA, PHR, PHY, PM, RM, or STA. At least 5 of these hours must be in CHE courses; at least 4 hours must be taken outside CHE. Up to 9 hours of CHE 395 are recommended for students having a minimum GPA of 3.0 in CHE courses. Other courses may be approved by the Undergraduate Program Committee. Students working towards teaching accreditation may count 6 hours taken at the 300+ level from the College of Education. A maximum of 9 hours in undergraduate research or reading courses may be counted; such courses require approval of the Undergraduate Program Committee if the courses do not carry the CHE prefix.</td>
<td></td>
</tr>
<tr>
<td>Total Minimum Hours Required for Degree:</td>
<td>120</td>
</tr>
</tbody>
</table>

*Any language may be used to satisfy the USP and College Foreign Language requirements–German is recommended.*

### Curriculum for B.A. in Chemistry

#### Freshman Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 111 Laboratory to Accompany General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>ENG 104 Writing: An Accelerated Foundational Course</td>
<td>4</td>
</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>1</td>
</tr>
<tr>
<td>University Studies</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 107 General College Chemistry II</td>
</tr>
<tr>
<td>CHE 113 Laboratory to Accompany General Chemistry II</td>
</tr>
<tr>
<td>MA 114 Calculus II</td>
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<tr>
<td>University Studies</td>
</tr>
<tr>
<td>Elective</td>
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#### Sophomore Year

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
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<tr>
<td>CHE 230 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 231 Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>PHY 211 General Physics</td>
<td>5</td>
</tr>
<tr>
<td>University Studies</td>
<td>3</td>
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<tr>
<td>University Studies or Second-Tier Writing Requirement</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
</tr>
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<tbody>
<tr>
<td>CHE 226 Analytical Chemistry</td>
</tr>
<tr>
<td>CHE 232 Organic Chemistry II</td>
</tr>
<tr>
<td>CHE 233 Organic Chemistry Laboratory II</td>
</tr>
<tr>
<td>PHY 213 General Physics</td>
</tr>
<tr>
<td>University Studies</td>
</tr>
</tbody>
</table>

### Bachelor of Science with a major in CHEMISTRY

#### Traditional Option

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

#### University Studies Program Requirements

I. Math (completed by Premajor Requirement)
II. Foreign Language* (placement exam recommended) 0-8
III. Inference-Logic (completed by Premajor Requirement) 0-4
IV. Written Communication 0-4
V. Natural Sciences (completed by Premajor Requirement) 0-4
VI. Social Sciences 0-6
VII. Humanities 0-6
IX. Cross-Cultural (choose a Humanities course) 3
X. Electives (choose a Social Science course) 3

**USP hours:** 18-30

### Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

**Graduation Writing Requirement Hours:** 3

### College Requirements

| I. Foreign Language (placement exam recommended) | 0-6 |
|II. Disciplinary Requirements |
| a. Natural Science (completed by Major Requirements) |
| b. Social Science (completed by USP Elective Requirement) |
| c. Humanities (completed by USP Cross-Cultural Requirement) |
| III. Laboratory or Field Work (completed by Premajor Requirement) |
| IV. Electives | 6 |

**College Requirement hours:** 6-12

### Premajor Requirements

| MA 113 Calculus I | 4 |
| MA 114 Calculus II | 4 |
| CHE 105 General College Chemistry I | 3 |
| CHE 107 General College Chemistry II | 3 |
| CHE 111 Laboratory to Accompany General Chemistry I | 1 |
| CHE 113 Laboratory to Accompany General Chemistry II | 2 |

**Premajor hours:** 17

### Major Requirements

| Major Core Requirements |
| CHE 226 Analytical Chemistry | 3 |
| CHE 230 Organic Chemistry I | 3 |
| CHE 231 Organic Chemistry Laboratory I | 2 |
| CHE 232 Organic Chemistry II | 3 |
| CHE 441G Physical Chemistry Laboratory | 2 |
| CHE 442G Thermodynamics and Kinetics | 3 |
| CHE 450G Practical Inorganic Chemistry | 4 |
| CHE 522 Instrumental Analysis | 4 |
| CHE 532 Spectrometric Identification of Organic Compounds | 2 |
| CHE 533 Qualitative Organic Analysis Laboratory | 2 |
| CHE 547 Principles of Physical Chemistry I | 3 |
| CHE 550 Biological Chemistry I | 2 |
| CHE 552 Biological Chemistry II | 3 |
| CHE 572 Communication in Chemistry | 1 |

**Major Core hours:** 36

### Other Course Work Required for the Major

From the Major Department:

| Chemistry Major Field Options | 6 |
| Choose six hours from the following: up to six hours of CHE 395, any CHE 500-level course except for those required (CHE 522/525/533/550 or 552/572); BCH 401G or BCH 501; and BCH 502. |
| From the Mathematics Department |
| MA 213 Calculus III | 4 |
| MA 322 Matrix Algebra and its Applications | 3 |
| From the Physics Department |
| PHY 211/213 General University Physics | 8 |
| PHY 214/242 General University Physics Laboratory | 2 |

**Other Major hours:** 23

### Electives

Choose electives to lead to the minimum total of 120 hours required for graduation.
Total Minimum Hours Required for Degree .......................... 120

*Any language may be used to satisfy the USP and College Foreign Language requirements - German is recommended.

Curriculum for B.S. in Chemistry

Traditional Option

Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 111 Laboratory to Accompany</td>
<td>1</td>
</tr>
<tr>
<td>ENG 104 Writing: An Accelerated</td>
<td>4</td>
</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>University Studies</td>
<td>6</td>
</tr>
<tr>
<td>Second</td>
<td></td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 113 Laboratory to Accompany</td>
<td>2</td>
</tr>
<tr>
<td>MA 114 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>University Studies</td>
<td>6</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
</tr>
<tr>
<td>CHE 226 Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHE 230 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>MA 213 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHY 231 General University Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 241 General University Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Second</td>
<td></td>
</tr>
<tr>
<td>CHE 231 Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>CHE 232 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>MA 322 Matrix Algebra and Its Applications</td>
<td>3</td>
</tr>
<tr>
<td>PHY 232 General University Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 242 General University Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Eng 2XX Writing Intensive Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Junior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
</tr>
<tr>
<td>CHE 547 Principles of Physical Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 532 Spectrometric Identification of Organic Compounds</td>
<td>2</td>
</tr>
<tr>
<td>Foreign Language I</td>
<td>4</td>
</tr>
<tr>
<td>University Studies</td>
<td>6</td>
</tr>
<tr>
<td>Second</td>
<td></td>
</tr>
<tr>
<td>CHE 441 Physical Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHE 442 Thermodynamics and Kinetics</td>
<td>3</td>
</tr>
<tr>
<td>CHE 533 Qualitative Organic Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHE 572 Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Major Field Option</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language II</td>
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</table>

Senior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
</tr>
<tr>
<td>CHE 450G Practical Inorganic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHE 522 Instrumental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHE 550 Biological Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>or Major Field Option</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language III</td>
<td>3</td>
</tr>
<tr>
<td>Second</td>
<td></td>
</tr>
<tr>
<td>CHE 572 Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Foreign Language IV</td>
<td>3</td>
</tr>
<tr>
<td>CHE 552 Biological Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>or Major Field Option</td>
<td>3</td>
</tr>
<tr>
<td>Free Electives</td>
<td>6</td>
</tr>
<tr>
<td>University Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

*Any foreign language sequence satisfying the College of Arts and Sciences requirement in foreign languages may be taken. German is recommended.

Certification Requirements

The B.S. degree is certified by the American Chemical Society.

Bachelor of Science with a major in CHEMISTRY

Biochemistry Option

122 hours

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math (completed by Premajor Requirement)
II. Foreign Language* (placement exam recommended).................. 0-8
III. Inference-Logic (completed by Premajor Requirement)
IV. Written Communication ............................................. 0-4
VI. Natural Sciences (completed by Premajor Requirement)
VII. Social Sciences .................................................... 6
VIII. Humanities ........................................................ 6
IX. Cross-Cultural (choose a Humanities course) ............ 3
X. Electives (choose a Social Science course) .............. 3

USP hours: ......................................................... 18-30

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .............. 3

College Requirements

I. Foreign Language (placement exam recommended).................. 0-6
II. Disciplinary Requirements
a. Natural Science (completed by Major Requirement)
b. Social Science (completed by USP Elective Requirement)
c. Humanities (completed by USP Cross-Cultural Requirement)
III. Laboratory or Field Work (completed by Premajor Requirement)
IV. Electives .................................................................. 6

College Requirement hours: ........................................ 6-12

Premajor Requirements

MA 113 Calculus I .................................................... 4
MA 114 Calculus II .................................................. 4
CHE 104 General College Chemistry I ................................ 3
CHE 107 General College Chemistry II ................................ 3
CHE 111 Laboratory to Accompany General Chemistry I .............. 1
CHE 113 Laboratory to Accompany General Chemistry II .......... 2
CHE 151 Principles of Biology Laboratory I .......................... 2
BIO 152 Principles of Biology Laboratory II ...................... 3
BIO 153 Principles of Biology Laboratory II ...................... 2

Premajor hours: ..................................................... 27

Major Core Requirements

Major Core Requirements

MA 213 Calculus III .................................................. 4
MA 322 Matrix Algebra and Its Applications ................... 3
CHE 230 Organic Chemistry I ........................................ 3
CHE 231 Organic Chemistry II ....................................... 3
CHE 241G Physical Chemistry Laboratory ........................... 2
CHE 442G Thermodynamics and Kinetics ......................... 3
CHE 554 Biological Chemistry Laboratory ....................... 2

Other Course Work Required for the Major

From the Major Department:

Major Field Options must be chosen from the following:
CHE 395; or any CHE 500-level course except for those required. CHE 395 is strongly recommended for students having a minimum 3.0 GPA in chemistry courses.

From the Mathematics Department

MA 213 Calculus III .................................................. 4

From the Physics Department

CHE 231/232 General University Physics ......................... 8
CHE 241/242 General University Physics ......................... 2

Other Major hours: .................................................. 18

Electives

Choose electives to lead to the minimum total of 122 hours required for graduation.

Total Minimum Hours Required for Degree .......................... 122

Curriculum for B.S. in Chemistry

Biochemistry Option

Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td></td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
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<tr>
<td>CHE 111 Laboratory to Accompany</td>
<td>1</td>
</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>ENG 104 Writing: An Accelerated</td>
<td>4</td>
</tr>
<tr>
<td>University Studies</td>
<td>3</td>
</tr>
<tr>
<td>Second</td>
<td></td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 113 Laboratory to Accompany</td>
<td>2</td>
</tr>
<tr>
<td>MA 114 Calculus II</td>
<td>2</td>
</tr>
<tr>
<td>BIO 150 Principles of Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 151 Principles of Biology Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>BIO 152 Principles of Biology Laboratory II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 153 Principles of Biology Laboratory II</td>
<td>2</td>
</tr>
</tbody>
</table>
| Premajor hours: ................................................ 27

Major Core Requirements

MA 213 Calculus III .................................................. 4
MA 322 Matrix Algebra and Its Applications ................... 3
CHE 230 Organic Chemistry I ........................................ 3
CHE 231 Organic Chemistry II ....................................... 3
CHE 241G Physical Chemistry Laboratory ........................... 2
CHE 442G Thermodynamics and Kinetics ......................... 3
CHE 554 Biological Chemistry Laboratory ....................... 2

Other Course Work Required for the Major

From the Major Department:

Major Field Options must be chosen from the following:
CHE 395; or any CHE 500-level course except for those required. CHE 395 is strongly recommended for students having a minimum 3.0 GPA in chemistry courses.

From the Mathematics Department

MA 213 Calculus III .................................................. 4

From the Physics Department

CHE 231/232 General University Physics ......................... 8
CHE 241/242 General University Physics ......................... 2

Other Major hours: .................................................. 18

Electives

Choose electives to lead to the minimum total of 122 hours required for graduation.
# Bachelor of Arts with a major in ECONOMICS

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

### University Studies Program Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Math (completed by Premajor Requirements)</td>
<td>3</td>
</tr>
<tr>
<td>II. Foreign Language (placement exam recommended)</td>
<td>4-6</td>
</tr>
<tr>
<td>III. Inference-Logic (completed by Premajor Requirements)</td>
<td>3-4</td>
</tr>
<tr>
<td>IV. Written Communication</td>
<td>0-4</td>
</tr>
<tr>
<td>V. Oral Communication*</td>
<td>1</td>
</tr>
<tr>
<td>VI. Natural Sciences</td>
<td>3-6</td>
</tr>
<tr>
<td>VII. Social Sciences (partially completed by Premajor Requirements)</td>
<td>3-6</td>
</tr>
<tr>
<td>VIII. Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

### Minor in Chemistry

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 113 Calculus I or MA 132 Calculus for the Life Sciences</td>
<td>4</td>
</tr>
<tr>
<td>MA 144 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 211/213 General Physics or MA 141 Calculus I</td>
<td>10</td>
</tr>
<tr>
<td>PHY 231/241 General University Physics and Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>CHE 105/107 General College Chemistry I and II</td>
<td>6</td>
</tr>
<tr>
<td>CHE 111/113 Laboratory to Accompany General Chemistry I and II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 226 Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHE 230/231 Organic Chemistry I and Laboratory I</td>
<td>5</td>
</tr>
<tr>
<td>CHE 232/233 Organic Chemistry II and Laboratory II</td>
<td>5</td>
</tr>
<tr>
<td>CHE 440G Introductory Physical Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 446G Physical Chemistry for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>Coordinate with other instructors to determine the specific courses needed.</td>
<td></td>
</tr>
</tbody>
</table>

**B.A. or B.S. with a major in CLASSICS**

The requirements for the B.A. and B.S. with a major in Classics are listed in this A&S section under Modern and Classical Languages, Literatures and Cultures.

### ECONOMICS

The Department of Economics offers theoretical and applied courses in diverse areas including microeconomics, macroeconomics, labor, money and banking, international economics, public economics, and industrial organization. It provides an opportunity for the student to pursue his or her interests within the framework of a liberal arts education.

The department offers programs leading to different undergraduate degrees—a Bachelor of Science in the Gatton College of Business and Economics, a Bachelor of Arts and a Bachelor of Science with a major in economics in the College of Arts and Sciences, a Bachelor of Arts and a Bachelor of Science with a major in foreign language and international economics, and a Bachelor of Arts and a Bachelor of Science with a major in mathematical economics. The distinctions among these degrees lie primarily in the required supporting courses in the various programs. (Foreign language and international economics majors and mathematiccal economics majors should refer directly to that section of the Bulletin.)

### Certification Requirements

The B.S. degree is certified by the American Chemical Society.
Bachelor of Science with a major in ECONOMICS

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a prefix of ECO are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this 60-hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math (completed by Premajor Requirements) .......... 8
II. Foreign Language (placement exam recommended) .......... 0-8
III. Inference-Logic (completed by Premajor Requirements) .......... 4
IV. Written Communication ...................................... 4
V. Oral Communication* ........................................ 1
VI. Natural Sciences ............................................... 6
VII. Social Sciences (partially completed by Premajor Requirements) .......... 3
VIII. Humanities ..................................................... 6
IX. Cross-Cultural (choose a Humanities course) .... 3
X. Electives (choose six hours of Natural Sciences) .... 6

USP hours: ..................................................... 27-39

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .. 3

College Requirements

I. Foreign Language (placement exam recommended) .......... 0-8
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) .......... 0-8
   b. Social Science (completed by Premajor Requirement) .......... 0-8
   c. Humanities (completed by USP Cross-Cultural Requirement) .......... 0-8
III. Laboratory or Field Work ..................................... 1
IV. Electives ..................................................... 6

College Requirement hours: ......................... 7-15

Premajor Requirements

*MA 113 Calculus I or
MA 123 Elementary Calculus and its Applications and
MA 162 Finite Mathematics and its Applications .......... 4-6
*ECO 201 Principles of Economics I .......................... 3
ECO 202 Principles of Economics II .......................... 3
STA 291 Statistical Method ..................................... 3

Premajor hours: ................................................................ 13-15

Major Requirements

Major Core Requirements

ECO 391 Economic and Business Statistics ................. 3
ECO 401 Intermediate Microeconomic Theory ............. 3
ECO 402 Intermediate Macroeconomic Theory ............. 3
*ECO 499 Seminar in Economics ............................. 3

Major Core hours: ..................................................... 12

Other Course Work Required for the Major

From the Major Department:
Choose 9-15 hours of 300+ level Economics courses ................................................. 9-15

From Outside the Major Department
Choose 15-21 hours outside Economics at the 200+ level, with at least six hours in two different departments. These courses are generally chosen from the following departments: Anthropology, Computer Science, History, Mathematics, Philosophy, Political Science, Psychology, Sociology, Statistics, or courses offered by the College of Business and Economics. 200+ level courses used to satisfy USP and College Requirements can also be counted here .......................................................... 15-21

Other Major hours: ..................................................... 30

Electives

Choose electives to lead to the minimum total of 60 science hours and 120 earned hours required for graduation .......................................................... 7

Total Minimum Hours

Required for Degree ................................................. 120

*Course used towards completion of a USP or College Requirement.

*COM 199 + ECO 499 complete the Oral Communication Requirement.

Minor in Economics

Hours

The minor consists of eighteen hours to include:
ECO 201 Principles of Economics I .......................... 3
ECO 202 Principles of Economics II .......................... 3
ECO 401 Intermediate Microeconomic Theory or
ECO 402 Intermediate Macroeconomic Theory ........ 3
Three additional economics courses at the 300-level or above ..................................... 9

Bachelor of Arts with a major in

ENGLISH

The Department of English offers a wide variety of courses in English and American literature as well as in comparative literature, linguistics, folklore, film, creative writing, and composition. Undergraduate majors may also choose a curriculum that leads to a teaching certificate.

Both majors and nonmajors will find many courses that offer opportunities to deepen their acquaintance with their own culture and its heritage, to enlarge their understanding of the human condition, and to develop their capacity to use and appreciate their own language.

Bachelor of Arts with a major in

ENGLISH

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math ................................................................. 0-3
II. Foreign Language (placement exam recommended) .......... 0-8
III. Inference-Logic .................................................. 3-6
IV. Written Communication ...................................... 0-4
V. Oral Communication ........................................ 3
VI. Natural Sciences ............................................... 6
VII. Social Sciences ............................................... 6
VIII. Humanities (completed by Premajor/Major Requirements) .......... 0-6
IX. Cross-Cultural (ENG 254 or a 300+ level Social Science course recommended for efficiency) .......... 3
X. Electives (two Natural Science courses recommended for efficiency) .......... 6

USP hours: ..................................................... 27-39

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course (may be satisfied by Premajor/Major requirements). See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .. 3

College Requirements

I. Foreign Language (placement exam recommended) .......... 0-8
II. Disciplinary Requirements
   a. Natural Science (may be completed by USP Elective Requirement) .......... 0-6
   b. Social Science (may be partially completed by USP Cross-Cultural Requirement) .......... 3-6
   c. Humanities (completed by Major Requirements) .......... 0-6
III. Laboratory or Field Work ..................................... 1
IV. Electives ..................................................... 6

College Requirement hours: ......................... 10-33

Premajor Requirements

*ENG 230 Introduction to Literature ................................ 3
plus one of the following
*ENG 231 Literature and Genre .................................. 3
*ENG 232 Literature and Place ................................... 3
*ENG 233 Literature and Identities ................................ 3
*ENG 234 Introduction to Women’s Literature ........ 3
ENG 264 Major Black Writers .................................... 3
ENG 281 Introduction to Film ..................................... 3

Premajor hours: ..................................................... 6

Major Requirements

Major Core Requirements

ENG 330 Text and Context ......................................... 3
**ENG 395 Independent Work (Capstone) ...................... 1

Major Core hours: ..................................................... 4

Other Course Work Required for the Major

From the Major Department:

Language Module .................................................. 3
Choose one of the following: ENG/LIN 210, 211, 310

Literature Module ..................................................... 12
Complete two of the following British literature courses:
ENG 331, 332, 333, 334, 340; and two of the following American literature courses:
ENG 334, 335, 336. At least three of these must be chosen from the survey courses (ENG 331, 332, 334, 335).

Area Module ..................................................... 12
Complete four additional courses – at least two of which must be from the same area module. Note that some of the listed courses may be repeated under different subtitles.

Literature: ENG 340 (if not used in Literature Module),
481G, 482G, 483G, 484G, 485G, 570, 572

Imaginative Writing: ENG 207, 407, 507
Writing: ENG 301, 304, 401, 405, 509

Film and Media: ENG 238, 381, 382, 480G

Language Study: ENG/LIN 310, LIN/ANT 319, ENG/LIN 512, ENG/LIN/EDC 513, ENG/LIN/EDC 514, ENG/LIN/ANT 515, ENG/LIN/ANT 516, ENG 519
College of Arts and Sciences

Theory: ENG 486G, 487G, 488G

English Education Emphasis: ENG 264 or 483G, 509, 572, and one additional writing module course

From Outside the Major Department
15 additional hours at the 200+ level outside English are required (courses 300+ recommended; note that 200+ level courses used to satisfy USP and College Requirements may also be counted here.) ............................. 15

Major hours: .............................................. 42

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation ........................................ 3

Total Minimum Hours Required for Degree: 120

*Course used towards completion of a USP Requirement.

English Language and International Economics

The University of Kentucky offers a joint major that combines foreign language proficiency with training in economics to prepare students for employment in enterprises doing business internationally. The program prepares students to succeed after graduation by combining high-quality classroom instruction with practical in-country learning opportunities. The program provides preparation for participation in internships and exchange programs and builds foundation for a future career in international business, or degrees in international law, an MBA in international business, or the Patterson School of International Diplomacy.

For further information and advising, contact the undergraduate advisor in the Department of Economics or in one of the language programs: Department of Hispanic Studies, 1115 Patterson Office Tower; or the Department of Modern and Classical Languages, Literatures and Cultures, 1015 Patterson Office Tower (Classics, French and Italian); 1055 Patterson Office Tower (German Studies and Russian and Eastern Studies); 1439 Patterson Office Tower or 971 Patterson Office Tower (Japan Studies). The University’s address is: University of Kentucky, Lexington, KY 40506-0027

Bachelor of Arts with a major in

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an ENG prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math.............................................................................. 0-3
II. Foreign Language (placement exam recommended) .................. 0-8
III. Logic .............................................................................. 3-6
IV. Written Communication ................................................ 3
V. Oral Communication .......................................................... 3
VI. Natural Sciences ............................................................. 6
VII. Social Sciences ................................................................ 6
VIII. Humanities (completed by Premajor/Major Requirements) ........ 0-6
IX. Cross-Cultural (ENG 264 or a 300+ level Social Science course recommended for efficiency) .................. 3
X. Electives (two Natural Science courses recommended for efficiency) .... 6
USP hours: ........................................................................... 27-52

Graduation Writing Requirement
After attaining sophomore status, students must complete a Graduation Writing Requirement course (may be satisfied by Premajor/Major requirements). See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: 3

College Requirements

I. Foreign Language (placement exam recommended) ................................ 0-8
II. Disciplinary Requirements
   a. Natural Science (may be completed by USP Elective Requirement) ...... 0-6
   b. Social Science (may be partially completed by USP Cross-Cultural Requirement) 3-6
   c. Humanities (completed by Major Requirements) ................................ 6

III. Laboratory or Field Work .................................................. 1
IV. Electives ............................................................................. 6

College Requirement hours: .................................. 10-33

Premajor Requirements
*ENG 230 Introduction to Literature .................................................. 3
*plus one of the following:
*ENG 231 Literature and Genre
*ENG 232 Literature and Place
*ENG 233 Literature and Identities
*ENG 234 Introduction to Women’s Literature

ENG 264 Major Black Writers
ENG 281 Introduction to Film

Premajor hours: ................................................................. 6

Major Requirements

Major Core Requirements
ENG 330 Text and Context .................................................. 3

**ENG 395 Independent Work (Capstone) ................................. 1

Major Core hours: .............................................................. 4

Other Course Work Required for the Major

From the Major Department:

Language Module ........................................................................ 3

Choose one of the following: ENG/LIN 210, 211, 310

Literature Module ............................................................................. 12

Complete two of the following British literature courses: ENG 331, 332, 333, 340; and two of the following American literature courses: ENG 334, 335, 336. At least three of these must be chosen from the survey courses (ENG 331, 332, 334, 335).

Area Module .................................................................................. 12

Complete four additional courses – at least two of which must be from the same area module. Note that some of the listed courses may be repeated under different subtitles.


Imaginative Writing: ENG 207, 407, 507

Writing: ENG 301, 306, 401, 405, 509

Film and Media: ENG 283, 381, 382, 480G

Language Study: ENG/LIN 310, LIN/ANT 319, ENG/LIN 512, ENGLIN/ECC 513, ENGLIN/ECC 514, ENGLIN/ANT 515, ENGLIN/ANT 516, ENG 519

Theory: ENG 486G, 487G, 488G

English Education Emphasis: ENG 264 or 483G, 509, 572, and one additional writing module course

From Outside the Major Department
15 additional hours at the 200+ level outside English are required (courses 300+ recommended; note that 200+ level courses used to satisfy USP and College Requirements may also be counted here.) ............................. 15

Major hours: ................................................................. 42

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation ........................................ 6

Total Minimum Hours Required for Degree: 120

*Course used towards completion of a USP Requirement.

Minor in English

The minor consists of a total of 18 hours, of which at least 12 hours must be at or above the 300-level. The hours are to be distributed as follows:

1. Two of the following courses (six hours):
   ENG 331 Survey of British Literature I
   ENG 332 Survey of British Literature II
   ENG 334 Survey of American Literature I
   ENG 335 Survey of American Literature II
2. One course in Shakespeare (three hours)
3. Three more courses (nine hours) selected from the department’s offerings (excluding all 100-level courses and ENG 203, 204, 205, 281, 262).

Bachelor of Arts with a major in

FOREIGN LANGUAGES AND INTERNATIONAL ECONOMICS:

FRENCH

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math .............................................................................. 0-3
II. Foreign Language (completed by Major Requirements) ................. 0-3
III. Logic .............................................................................. 3-4
IV. Written Communication .................................................. 0-4
V. Oral Communication* (can be partially completed by Major Requirements) ......................... 1
VI. Natural Sciences ............................................................. 6

*Currently being waived.

Bachelor of Arts with a major in

FOREIGN LANGUAGES AND INTERNATIONAL ECONOMICS:

JAPANESE

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math .............................................................................. 0-3
II. Foreign Language (completed by Major Requirements) ................. 0-3
III. Logic .............................................................................. 3-4
IV. Written Communication .................................................. 0-4
V. Oral Communication* (can be partially completed by Major Requirements) ......................... 1
VI. Natural Sciences ............................................................. 6

*Currently being waived.
VII. Social Sciences (partially completed by Major Requirement) .................................................. 3
VIII. Humanities .......................................................................................................................... 6
IX. Cross-Cultural (choose a 300+ level Humanities course) ................................................ 3
X. Electives (choose two Natural Science courses) ................................................................. 6

USP hours: ................................................................. 28-36

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: ........................................... 3

College Requirements

I. Foreign Language (completed by Major Requirements) ...................................................... 3
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) ........................................ 3
   b. Social Science (completed by Major Requirements) .................................................... 3
   c. Humanities (completed by USP Cross-Cultural and Major Requirements) ............ 3
III. Laboratory or Field Work ................................................................................................. 1
IV. Electives ......................................................................................................................... 6

College Requirement hours: ................................................................. 7

Major Requirements

French Core Requirements
   a. FR 203 Elementary French Conversation and Composition ..................................... 3
   b. FR 306 Intermediate French Composition ................................................................. 3
   c. FR 307 French for Business and Economics ............................................................. 3

French Core hours: .................................................................................. 9

Economics Core Requirements
   a. ECO 201 Principles of Economics I ................................................................. 3
   b. ECO 202 Principles of Economics II ................................................................. 3
   c. ECO 391 Economic and Business Statistics .................................................... 3
   d. ECO 401 Intermediate Microeconomic Theory ................................................. 3
   e. ECO 402 Intermediate Macroeconomic Theory ................................................ 3

Economics Core hours: ................................................................. 17

Other Course Work Required for the Major

For the French Component:
   Choose at least 14 hours of French courses ................................................................. 14

For the Economics Component:
   Choose a 3 hour Economics course ........................................................................... 3

Other Major hours: ...................................................................................... 17

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation ........... 25

Total Minimum Hours

Required for Degree ................................................................................ 120

Bachelor of Science with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: FRENCH

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with FR or ECO prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math ......................................................................................................................... 0-3
II. Foreign Language (completed by Major Requirement) .............................................. 3
III. Inference–Logic (choose MA 123 or 113 as a prerequisite to STA 291) ................. 3-4
IV. Written Communication ................................................................................................. 0-4
V. Oral Communication* (can be partially completed by Major Requirements) ........... 1
VI. Natural Sciences ........................................................................................................ 6
VII. Social Sciences (partially completed by Major Requirement) ................................... 3
VIII. Humanities ............................................................................................................... 6
IX. Cross-Cultural (choose a Humanities course) ............................................................. 3
X. Electives (choose two Natural Science courses) ........................................................... 6

USP hours: ............................................................................................................. 28-36

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: ........................................... 3

College Requirements

I. Foreign Language (completed by Major Requirements) .............................................. 3
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) .................................... 3
   b. Social Science (completed by Major Requirement) .................................................. 3
   c. Humanities (completed by USP Cross-Cultural and Major Requirements) .......... 3
III. Laboratory or Field Work ................................................................................................. 1
IV. Electives ......................................................................................................................... 6

College Requirement hours: ................................................................. 7

Major Requirements

French Core Requirements
   a. FR 203 Elementary French Conversation and Composition .................................. 3
   b. FR 306 Intermediate French Composition ................................................................. 3
   c. FR 307 French for Business and Economics ............................................................. 3

French Core hours: .................................................................................. 9

Economics Core Requirements
   a. STA 291 Statistical Method .................................................................................... 3
   b. ECO 201 Principles of Economics I ................................................................. 3
   c. ECO 202 Principles of Economics II ................................................................. 3
   d. ECO 391 Economic and Business Statistics .................................................... 3
   e. ECO 401 Intermediate Microeconomic Theory ................................................. 3
   f. ECO 402 Intermediate Macroeconomic Theory ................................................ 3
   g. ECO 472 International Monetary Economics ..................................................... 3
   h. ECO 473G Economic Development ...................................................................... 3

Economics Core hours: ...................................................................................... 24

Other Course Work Required for the Major

For the French Component:
   Choose at least 14 hours of French courses ................................................................. 14

For the Economics Component:
   Choose a 3 hour Economics course ........................................................................... 3

Total Minimum Hours

Required for Degree ................................................................................ 120

Bachelor of Arts with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: GERMAN

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math ......................................................................................................................... 0-3
II. Foreign Language (completed by Major Requirements) .............................................. 3
III. Inference–Logic (choose MA 123 or 113 as a prerequisite to STA 291) ................. 3-4
IV. Written Communication ................................................................................................. 0-4
V. Oral Communication* (completed by Major Requirements) ..................................... 1
VI. Natural Sciences ........................................................................................................ 6
VII. Social Sciences (partially completed by Major Requirement) ................................... 3
VIII. Humanities ............................................................................................................... 6
IX. Cross-Cultural (choose a 300+ level Humanities course) ........................................ 3
X. Electives (choose two Natural Science courses) ........................................................... 6

USP hours: ............................................................................................................. 27-35

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: ........................................... 3

College Requirements

I. Foreign Language (completed by Major Requirements) .............................................. 3
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) .................................... 3
   b. Social Science (completed by Major Requirement) .................................................. 3
   c. Humanities (completed by USP Cross-Cultural and Major Requirements) .......... 3
III. Laboratory or Field Work ................................................................................................. 1
IV. Electives ......................................................................................................................... 6

College Requirement hours: ................................................................. 7
Major Requirements

German Core Requirements
*GER 205 Reading and Writing Practice 2
*GER 206 Oral Practice 2
*GER 307 Intermediate German Composition and Conversation 3
GER 310 German for International Business and Professions 3

German Core hours: 10

Economics Core Requirements
STA 291 Statistical Method 3
*ECO 201 Principles of Economics I 3
ECO 202 Principles of Economics II 3
ECO 391 Economic and Business Statistics 3
ECO 401 Intermediate Microeconomic Theory 3
ECO 402 Intermediate Macroeconomic Theory 3

plus two of the following:
ECO 471 International Trade 3
ECO 472 International Monetary Economics 3
ECO 473G Economic Development 3

Economics Core hours: 24

Other Course Work Required for the Major
For the German Component:
Choose at least 12 hours of German courses 12

For the Economics Component:
Choose a 3 hour Economics course 3

Other Major hours: 15

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation 27

Total Minimum Hours
Required for Degree 120

Graduation Writing Requirement
After attaining sophomore status, students must complete a 3 hour Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

College Requirements

I. Foreign Language (completed by Major Requirement)
II. Disciplinary Requirements
a. Natural Science (completed by USP Elective Requirement)
b. Social Science (completed by Major Requirement)
c. Humanities (completed by USP Cross-Cultural and Major Requirements)
III. Laboratory or Field Work
IV. Electives
College Requirement hours: 7

Major Requirements

German Core Requirements
*GER 205 Reading and Writing Practice 2
*GER 206 Oral Practice 2
*GER 307 Intermediate German Composition and Conversation 3
GER 310 German for International Business and Professions 3

German Core hours: 10

Economics Core Requirements
STA 291 Statistical Method 3
*ECO 201 Principles of Economics I 3
ECO 202 Principles of Economics II 3
ECO 391 Economic and Business Statistics 3
ECO 401 Intermediate Microeconomic Theory 3
ECO 402 Intermediate Macroeconomic Theory 3

plus two of the following:
ECO 471 International Trade 3
ECO 472 International Monetary Economics 3
ECO 473G Economic Development 3

Economics Core hours: 24

Other Course Work Required for the Major
For the German Component:
Choose at least 12 hours of German courses 12

For the Economics Component:
Choose a 3 hour Economics course 3

Other Major hours: 15

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation 27

Total Minimum Hours
Required for Degree 120

Graduation Writing Requirement
After attaining sophomore status, students must complete a 3 hour Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

College Requirements

I. Foreign Language (completed by Major Requirement)
II. Disciplinary Requirements
a. Natural Science (completed by USP Elective Requirement)
b. Social Science (completed by Major Requirement)
c. Humanities (completed by USP Cross-Cultural and Major Requirements)
III. Laboratory or Field Work
IV. Electives
College Requirement hours: 7

Major Requirements

Japanese Core Requirements
^JPN 202 Intermediate Japanese II 3
^JPN 321 Introduction to Japanese Culture, Meiji (1868) to Present 3
JPN 334 Environment, Society and Economics of Japan 3

Japanese Core hours: 9

Economics Core Requirements
STA 291 Statistical Method 3
*ECO 201 Principles of Economics I 3
ECO 202 Principles of Economics II 3
ECO 391 Economic and Business Statistics 3
ECO 401 Intermediate Microeconomic Theory 3
ECO 402 Intermediate Macroeconomic Theory 3

Economics Core hours: 24

Other Course Work Required for the Major
For the Japanese Component:
Choose at least 12 hours from the following: ANT 326, COM 525, GEO 333, HIS 295, HIS 296, HIS 597, JPN 283, JPN 320, JPN 395, JPN 405, PS 419G 12

For the Economics Component
^Choose a 3 hour Economics course 3

Other Major hours: 15

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation 30
**Bachelor of Arts with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: RUSSIAN**

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

**University Studies Program Requirements**
I. Math .......................................................... 0-3
II. Foreign Language (completed by Major Requirement) ............................................. 3
III. Written Communication .......................................................... 3-4
IV. Oral Communication* (can be partially completed by Major Requirement) .......... 1
V. Social Sciences (partially completed by Major Requirement) ............................... 6
VI. Humanities ........................................................................ 6
VII. Cross-Cultural (completed by Major Requirement) ........................................... 6
VIII. Humanities ................................................................... 6
IX. Electives (choose two Natural Science courses) ...................................................... 6

**USP hours: ............................................................ 25-33**

**Graduation Writing Requirement**

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

**Graduation Writing Requirement Hours:** 3

**College Requirements**

I. Foreign Language (completed by Major Requirements) ............................................. 3
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) ............................... 3
   b. Social Science (completed by Major Requirement) ............................................ 3
   c. Humanities (completed by Major Requirement) .................................................. 3
III. Laboratory or Field Work ........................................................................... 1
IV. Electives ................................................................................................. 6

**College Requirement hours:** ................................................................. 7

**Major Requirements**

Japanese Core Requirements
*JPN 202 Intermediate Japanese II ........................................................ 3
*JPN 321 Introduction to Japanese Culture, Meiji (1868) to Present ................. 3
JPN 334 Environment, Society and Economics of Japan ................................... 3

**Japanese Core hours: ................................................................. 9**

**Economics Core Requirements**

STA 291 Statistical Method .......................................................... 3
*ECO 201 Principles of Economics I ....................................................... 3
ECO 202 Principles of Economics II ...................................................... 3
ECO 391 Economic and Business Statistics .................................................. 3
ECO 401 Intermediate Microeconomic Theory ............................................. 3
ECO 402 Intermediate Macroeconomic Theory ............................................ 3
plus two of the following:
ECO 471 International Trade ................................................................. 3
ECO 472 International Monetary Economics .................................................. 3
ECO 473G Economic Development ......................................................... 3

**Economics Core hours: ................................................................. 24**

**Other Course Work Required for the Major**

For the Japanese Component:
Choose at least 12 hours from the following: ANT 326, COM 525, GEO 333, HIS 295, HIS 296, HIS 597, JPN 283, JPN 320, JPN 395, JPN 405, PS 419G ........ 12

For the Economics Component
*Choose a 3 hour Economics course .......................................................... 3

**Other Major hours: ................................................................. 15**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ................................ 30

**Total Minimum Hours Required for Degree:** 120

*Course used towards completion of a USP Requirement.

*COM 199 + ECO 499 satisfy the Oral Communication Requirement.

**Bachelor of Science with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: JAPANESE**

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please Note: courses with JPN and ECO prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

**University Studies Program Requirements**
I. Math .......................................................... 0-3
II. Foreign Language (completed by Major Requirement) ............................................. 3
III. Written Communication .......................................................... 0-4
IV. Oral Communication* (can be partially completed by Major Requirement) .......... 1
V. Social Sciences (completed by Major Requirement) ............................................ 6
VI. Natural Sciences ........................................................................ 6
VII. Social Sciences (partially completed by Major Requirement) ............................... 3
VIII. Humanities ........................................................................ 6
IX. Cross-Cultural (completed by Major Requirement) ........................................... 3
X. Electives (choose two Natural Science courses) ...................................................... 6

**USP hours: ............................................................ 25-33**

**Graduation Writing Requirement**

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

**Graduation Writing Requirement Hours:** 3

**College Requirements**

I. Foreign Language (completed by Major Requirement) ............................................. 3
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) ............................... 3
   b. Social Science (completed by Major Requirement) ............................................ 3
   c. Humanities (completed by Major Requirement) .................................................. 3
III. Laboratory or Field Work ........................................................................... 1
IV. Electives ................................................................................................. 6

**College Requirement hours:** ................................................................. 7

**Major Requirements**

Russian Core Requirements
*RUS 271 Russian Culture 1900-Present ................................................... 3
*RUS 301 Advanced Intermediate Russian I .................................................. 3
*RUS 302 Advanced Intermediate Russian II ............................................. 3
RUS 380 Nineteenth Century Russian Literature (in English) ......................... 3
or
RUS 381 Russian Literature 1900-Present (in English) .................................... 3

**Russian Core hours: ................................................................. 12**

**Economics Core Requirements**

STA 291 Statistical Method .......................................................... 3
*ECO 201 Principles of Economics I ....................................................... 3
ECO 202 Principles of Economics II ...................................................... 3
ECO 391 Economic and Business Statistics .................................................. 3
ECO 401 Intermediate Microeconomic Theory ............................................. 3
ECO 402 Intermediate Macroeconomic Theory ............................................ 3
plus two of the following:
ECO 471 International Trade ................................................................. 3
ECO 472 International Monetary Economics .................................................. 3
ECO 473G Economic Development ......................................................... 3

**Economics Core hours: ................................................................. 24**

**Other Course Work Required for the Major**

For the Russian Component:
*Choose at least nine hours from the following: HIS 385, HIS 386, HIS 534, HIS 535, HIS 538, PS 429G, RUS 499, RUS 501, RUS 502 ......................... 9

For the Economics Component
*Choose a 3 hour Economics course .......................................................... 3

**Other Major hours: ................................................................. 12**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ................................ 30

**Total Minimum Hours Required for Degree:** 120

*Course used towards completion of a USP Requirement.

*COM 199 + either ECO 499 or RUS 499 satisfy the Oral Communication Requirement.

**Bachelor of Science with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: JAPANESE**

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please Note: courses with JPN and ECO prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the
complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math ................................................................. 0-3
II. Foreign Language (completed by Major Requirement)
III. Inference–Logic (choose MA 123 or 113 as a prerequisite to STA 291) .......... 3-4
IV. Written Communication .................................. 0-4
V. Oral Communication* (can be partially completed by Major Requirement) ....... 3-4
VI. Natural Sciences ............................................. 6
VII. Social Sciences (partially completed by Major Requirement) ............................... 3
VIII. Humanities .................................................... 6
IX. Cross-Cultural (completed by Major Requirements) ........................................... 6
X. Electives (choose two Natural Science courses) ................................................... 6

USP hours: .......................................................... 25-33

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: 3

Major Requirements

Russian Core Requirements

*RUS 271 Russian Culture 1900-Present ................................................................. 3
*RUS 301 Advanced Intermediate Russian I ......................................................... 3
*RUS 302 Advanced Intermediate Russian II ....................................................... 3
RUS 380 Nineteenth Century Russian Literature (in English) .......................... 3
or
RUS 381 Russian Literature 1900-Present (in English) ........................................ 3

Russian core hours: .......................................................... 12

Economics Core Requirements

STA 291 Statistical Method ................................................................. 3
*ECO 201 Principles of Economics I ................................................................. 3
ECO 202 Principles of Economics II ................................................................. 3
ECO 391 Economic and Business Statistics ...................................................... 3
ECO 401 Intermediate Microeconomic Theory .................................................. 3
ECO 402 Intermediate Macroeconomic Theory ................................................. 3

Plus two of the following:
ECO 471 International Trade ................................................................. 3
ECO 472 International Monetary Economics .................................................... 3
ECO 473G Economic Development ............................................................... 3

Economics Core hours: .......................................................... 24

Other Course Work Required for the Major

For the Russian Component:
*Choose at least nine hours from the following: HIS 385, HIS 386, HIS 534, HIS 535, HIS 538, PS 429G, RUS 499, RUS 501, RUS 502 ........................................ 9

For the Economics Component
*Choose a 3 hour Economics course ................................................................. 3

Other Major hours: .......................................................... 12

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation ................................. 30

Total Minimum Hours Required for Degree ..................................................... 120

*Course used towards completion of a USP Requirement.
*COM 199 + either ECO 499 or RUS 499 satisfy the Oral Communication Requirement.

Bachelor of Arts with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: SPANISH

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math ................................................................. 0-3
II. Foreign Language (completed by Major Requirement)
III. Inference–Logic (choose MA 123 or 113 as a prerequisite to STA 291) .......... 3-4
IV. Written Communication .................................. 0-4
V. Oral Communication* (can be partially completed by Major Requirement) ....... 3-4
VI. Natural Sciences ............................................. 6
VII. Social Sciences (partially completed by Major Requirement) ............................... 3
VIII. Humanities .................................................... 6
IX. Cross-Cultural (completed by Major Requirement) ........................................... 6
X. Electives (choose two Natural Science courses) ................................................... 6

USP hours: .......................................................... 25-33

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: 3

College Requirements

Foreign Language (completed by Major Requirement)

I. Math ................................................................. 0-3
II. Foreign Language (completed by Major Requirement)
III. Inference–Logic (choose MA 123 or 113 as a prerequisite to STA 291) .......... 3-4
IV. Written Communication .................................. 0-4
V. Oral Communication* (can be partially completed by Major Requirement) ....... 3-4
VI. Natural Sciences ............................................. 6
VII. Social Sciences (partially completed by Major Requirement) ............................... 3
VIII. Humanities .................................................... 6
IX. Cross-Cultural (completed by Major Requirement) ........................................... 6
X. Electives (choose two Natural Science courses) ................................................... 6

USP hours: .......................................................... 25-33

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: 3

College Requirements

Spanish Core Requirements

SPA 210 Spanish Grammar and Syntax ................................................................. 3
SPA 211 Intermediate Spanish Conversation ...................................................... 3
SPA 302 Commercial and Technical Spanish ..................................................... 3

Spanish Core hours: .......................................................... 9

Economics Core Requirements

STA 291 Statistical Method ................................................................. 3
*ECO 201 Principles of Economics I ................................................................. 3
ECO 202 Principles of Economics II ................................................................. 3
ECO 391 Economic and Business Statistics ...................................................... 3

Bachelor of Science with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: SPANISH

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with SPA and ECO prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math ................................................................. 0-3
II. Foreign Language (completed by Major Requirement)
III. Inference–Logic (choose MA 123 or 113 as a prerequisite to STA 291) .......... 3-4
IV. Written Communication .................................. 0-4
V. Oral Communication* (can be partially completed by Major Requirement) ....... 3-4
VI. Natural Sciences ............................................. 6
VII. Social Sciences (partially completed by Major Requirement) ............................... 3
VIII. Humanities .................................................... 6
IX. Cross-Cultural (completed by Major Requirement) ........................................... 6
X. Electives (choose two Natural Science courses) ................................................... 6

USP hours: .......................................................... 25-33

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: 3
foundations that draw from and interrelate worlds. Geography is, therefore, both a social and physical feature of the earth’s environment. With developed analytical, critical thinking, and communication skills, geography is particularly useful for students wishing to enter such careers as economic development, environmental management, international trade, transportation analysis and planning, diplomacy, government administration from local to federal levels, market analysis, urban and regional planning, research, teaching, cartography, Geographic Information Systems (GIS), and private business.

The Department of Geography has developed detailed major concentration tracks in three areas: earth environmental systems (physical geography), human geography, and geographic information techniques. For more information, contact the Department of Geography at (859) 257-2931, or on the Web at: www.uky.edu/AS/Geography/.

Bachelor of Arts with a major in GEOGRAPHY

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math .................................................. 0-3
II. Foreign Language (placement exam recommended) ................. 0-8
III. Inference–Logic ......................................... 0-4
IV. Written Communication ........................................... 3
V. Oral Communication .................................................. 3
VI. Natural Sciences (partially completed by Premajor Requirement) .......... 3
VII. Social Sciences (partially completed by Premajor Requirement) .............. 3
VIII. Humanities ................................................. 6
IX. Cross-Cultural .............................................. 3
X. Electives (choose 300+ level Humanities courses) ................................. 6

USP hours: .......................................... 24-42

Graduation Writing Requirement

Students satisfy the Graduation Writing Requirement with GEO 300, required in the Major Requirements.

Graduation Writing Requirement Hours: ........ 3

College Requirements

I. Foreign Language (placement exam recommended) .................. 0-8
II. Disciplinary Requirements
a. Natural Science ........................................... 6
b. Social Science (completed by Major Requirements) ................. 6
c. Humanities (completed by USP Elective Requirement) .............. 6
III. Laboratory or Field Work ...................................... 1
IV. Electives .................................................. 6

College Requirement hours: ...................... 13-21

GEOGRAPHY

Geography analyzes and explains the location of and interrelationships between human and physical features of the earth’s environment. Geographers also examine how and why features and their locations change over time, with particular interest in the many impacts of these changes on both people and natural settings. Geography is, therefore, both a social and a physical science. Because it is a fundamental subject matter is people and their environments, the discipline serves as an effective bridge between the physical and cultural worlds.

Majors in geography build solid academic foundations that draw from and interrelate areas of study from the social and behavioral sciences, humanities, computer science and graphic communication, and the natural sciences. With developed analytical, critical thinking, and communication skills, geography is particularly useful for students wishing to enter such careers as economic development, environmental management, international trade, transportation analysis and planning, diplomacy, government administration from local to federal levels, market analysis, urban and regional planning, research, teaching, cartography, Geographic Information Systems (GIS), and private business.

The Department of Geography has developed detailed major concentration tracks in three areas: earth environmental systems (physical geography), human geography, and geographic information techniques. For more information, contact the Department of Geography at (859) 257-2931, or on the Web at: www.uky.edu/AS/Geography/.

Bachelor of Arts with a major in GEOGRAPHY

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math .................................................. 0-3
II. Foreign Language (placement exam recommended) ................. 0-8
III. Inference–Logic ......................................... 0-4
IV. Written Communication ........................................... 3
V. Oral Communication .................................................. 3
VI. Natural Sciences (partially completed by Premajor Requirement) .......... 3
VII. Social Sciences (partially completed by Premajor Requirement) .............. 3
VIII. Humanities ................................................. 6
IX. Cross-Cultural .............................................. 3
X. Electives (choose 300+ level Humanities courses) ................................. 6

USP hours: .......................................... 24-42

Graduation Writing Requirement

Students satisfy the Graduation Writing Requirement with GEO 300, required in the Major Requirements.

Graduation Writing Requirement Hours: ........ 3

College Requirements

I. Foreign Language (placement exam recommended) .................. 0-8
II. Disciplinary Requirements
a. Natural Science ........................................... 6
b. Social Science (completed by Major Requirements) ................. 6
c. Humanities (completed by USP Elective Requirement) .............. 6
III. Laboratory or Field Work ...................................... 1
IV. Electives .................................................. 6

College Requirement hours: ...................... 13-21

Pre-major Requirements

*GEO 130 Earth’s Physical Environment ................. 3
*GEO 172 Human Geography ................................ 3

Pre-major hours: ............................................. 6

*Course may be used towards fulfilling the University Studies Program requirements.

Major Requirements

Major Core Requirements

GEO 200 Concepts and Methodology in Geography ........................................... 3
GEO 300 Geographic Research ....................................... 3
GEO 305 Elements of Cartography .................................. 3
GEO 310 Quantitative Techniques in Geography ................. 3
GEO 499 Senior Research Seminar .................................... 3

Major Core hours: ............................................. 15

Other Course Work Required for the Major

From the Major Department:

Breadth Requirements ............................................. 6
Choose one regional geography course and one thematic geography course at the 300+ level.

Geography Concentration Tracks

Choose at least 12 hours of geography courses to include no more than six hours of GEO 560 (Independent Work in Geography) and GEO 480 (Internship in Geography) from one of the following tracks.

NOTE: Courses listed are examples and additional courses can be substituted with permission of advisor.

Track 1: Earth Environmental Systems (Physical Geography)

This concentration emphasizes the earth’s physical environment, including soils and landscapes; fluvial and other hydrologic systems; weather and climate; and vegetation and animal life. Emphasis is on (a) the pattern of spatial variation these regimes exhibit; (b) the physical processes that underpin their historical and spatial development; and (c) the interactions between these regimes and human activity. Topical areas reflecting physical-human interactions include identification and analysis of pollution, mitigation of natural hazards, and the outcomes of environmental management strategies.

The Department strongly recommends that students in the Earth Environmental Systems Concentration pursue a Bachelor of Science degree.

*GEO 210 Pollution, Hazards and Environmental Management .................................. 3
GEO 251 Weather and Climate ....................................... 3
GEO 351 Physical Landscapes ....................................... 3
*GEO 441G Fluvial Forms and Processes .................................. 3
Course may be used towards fulfilling the University Studies Program requirements.

*Or other Physical Geography, GIS, Remote Sensing, Computer Cartography courses.

Track 2: Human Geography (HG)

Human Geography focuses on the identification, description, and analysis of: (a) human spatial behavior and cognition; (b) social, economic, and political processes as they are manifest locally and globally; and (c) the cultural impress of human activity on the landscape. Within these areas, students can focus on the sociopsychological aspects of space and place, including cultural differences in ways of knowing the world. They will learn about the processes that produce local-to-global distinctiveness in key problem areas including: poverty, injustice, and hunger; illness, disability, and disease; patriarchy, racism, and homophobia; and unequal access to natural resources, education, health, and safety. Students will also find an opportunity to learn how human practices and broader processes affect both our natural and built environments. Finally, students will learn practical tools to contribute to better world through their
research, or professional participation in civil society, the private sector, or government agencies. The HG Track permits students to specialize in a particular region of interest, including East, South, Southwest (Middle East), and Southeast Asia, Europe, the Caribbean, and the United States, especially Appalachia and the South.

With the advice and consent of a faculty advisor, select from courses offered within the Department and other Departments, corresponding to a particular focus in HG.

*GEO 240 Geography and Gender ................................................. 3
*GEO 256 Behavior in Space and Time ........................................... 3
*GEO 260 Third World Development .............................................. 3
*GEO 285 Introduction to Planning ................................................ 3
*GEO 409G Geographic Information Systems and Science: Fundamentals ......................................................... 3
*GEO 455 Economic Geography ..................................................... 3
*GEO 460 Urban Geography ......................................................... 3
*GEO 465 Special Topics in Human Geography .................................. 3
*GEO 475G Medical Geography .................................................... 3
*GEO 490G American Landscapes .................................................. 3
*GEO 524 Political Geography ........................................................ 3
*GEO 544 Human Population Dynamics ........................................... 3
*GEO 545 Transportation Geography ............................................... 3
*GEO 546 Tourism and Recreation Geography .................................. 3
*GEO 547 Geography of Information and Communications ................. 3
*GEO 550 Sustainable Resource Development and Environmental Management .................................................... 3
*GEO 585 Aging and Environment ................................................ 3

*Course may be used towards fulfilling the University Studies Program requirements.

Track 3: Geographic Information Techniques (GIT)
The Geographic Information Techniques Concentration is concerned with all aspects of geographical information/data, including identification of data sources, collection, storage/retrieval, manipulation, analysis, and visualization. The GIT Concentration encompasses geographical information science (GIS), cartography, remote sensing, and spatial analysis.

GEO 309 Digital Geographic Data: Sources, Characteristics, Problems, and Uses ................................................ 3
GEO 409G Geographic Information Systems and Science: Fundamentals ................................................. 3
GEO 415 Map Interpretation ........................................................... 3
GEO 480 Internship in Geography .................................................. 3
GEO 505 Practicum in Cartography .................................................. 3
GEO 506 Introduction to Computer Cartography .................................. 3
GEO 508 Geographic Interpretation of Aerial Photography .................... 3

From Outside the Major Department
Choose 15 hours outside Geography at the 300+ level. 200+ level courses used to satisfy USP and College Requirements can also be counted here ........................................ 15

Major hours: ........................................................................ 48

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation ........................................... 4

Total Minimum Hours Required for Degree .................................. 120

*Course used towards completion of a USP Requirement.

Bachelor of Science with a major in GEOGRAPHY

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a GEO prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math ...................................................................................... 0-3
II. Foreign Language (placement exam recommended) ..................... 0-8
III. Inference-Logic .................................................................... 3-6
IV. Written Communication .......................................................... 0-4
V. Oral Communication .................................................................. 3
VI. Natural Sciences (partially completed by Premajor Requirement) .................. 3
VII. Social Sciences (partially completed by Premajor Requirement) .................. 3
VIII. Humanities ........................................................................ 6
IX. Cross-Cultural ....................................................................... 3
X. Electives (choose a Natural Science and a Humanities course) ............... 6

USP hours: ........................................................................ 0-24-42

Graduation Writing Requirement
Students satisfy the Graduation Writing Requirement with GEO 300, required in the Major Requirements.

Graduation Writing Requirement Hours: .................................. 3

College Requirements

I. Foreign Language (placement exam recommended) ..................... 0-8
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) ................. 3
   b. Social Science (completed by Major Requirement) .............................. 3
   c. Humanities (completed by USP Elective Requirement) ...................... 3
III. Laboratory or Field Work .......................................................... 1
IV. Electives .............................................................................. 6

College Requirement hours: .................................................... 7-15

Premajor Requirements

*GEO 130 Earth’s Physical Environment ........................................... 3
*GEO 172 Human Geography ......................................................... 3

Premajor hours: ....................................................................... 6

*Course may be used towards fulfilling the University Studies Program requirements.

Major Requirements

Major Core Requirements
GEO 200 Concepts and Methodology in Geography ................................. 3
GEO 300 Geographic Research .......................................................... 3
GEO 305 Elements of Cartography ..................................................... 3
GEO 310 Quantitative Techniques in Geography .................................... 3
GEO 499 Senior Research Seminar .................................................... 3

Major Core hours: ...................................................................... 15

Other Course Work Required for the Major

From the Major Department:

Breadth Requirements .................................................................. 6
Choose one regional geography course and one thematic geography course at the 300+ level.

Geography Concentration Tracks ...................................................... 6
Choose at least 12 hours of geography courses to include no more than six hours of GEO 560 (Independent Work in Geography) and GEO 480 (Internship in Geography) from one of the following tracks.

NOTE: Courses listed are examples and additional courses can be substituted with permission of advisor.

Track 1: Earth Environmental Systems

(Physical Geography)
This concentration emphasizes the earth’s physical environment, including soils and landscapes; fluvial and other hydrologic systems; weather and climate; and vegetation and animal life. Emphasis is on (a) the pattern of spatial variation these regimes exhibit; (b) the physical processes that underpin their historical and spatial development; and (c) the interactions between these regimes and human activity. Topical areas reflecting physical-human interactions include identification and analysis of pollution, mitigation of natural hazards, and the outcomes of environmental management strategies.

*GEO 210 Pollution, Hazards and Environmental Management .......... 3
GEO 251 Weather and Climate ......................................................... 3
GEO 351 Physical Landscapes ........................................................... 3
*GEO 441G Fluvial Forms and Processes ........................................... 3
*Or other Physical Geography, GIS, Remote Sensing, Computer Cartography courses.

Track 2: Human Geography (HG)

Human Geography focuses on the description, conception, and analysis of: (a) human spatial behavior and cognition; (b) social, economic, and political processes as they manifest locally and globally; and (c) the cultural impress of human activity on the landscape. Within these areas, students can focus on the socio-psychological aspects of space and place, including cultural differences in ways of knowing the world. They will learn about the processes that produce local-to-global distinctiveness in key problem areas including: poverty, injustice, and hunger; illness, disability, and disease; patriarchy, racism, and homophobia; and unequal access to natural resources, education, health, and safety. Students will also find an opportunity to learn how human practices and broader processes affect both our natural and built environments. Finally, students will learn practical tools to contribute to better world through their research, or professional participation in civil society, the private sector, or government agencies. The HG Track permits students to specialize in a particular region of interest, including East, South, Southwest (Middle East), and Southeast Asia, Europe, the Caribbean, and the United States, especially Appalachia and the South.

With the advice and consent of a faculty advisor, select from courses offered within the Department and other Departments, corresponding to a particular focus in HG.

*GEO 240 Geography and Gender .................................................. 3
GEO 256 Behavior in Space and Time .............................................. 3
GEO 260 Third World Development .................................................. 3
GEO 285 Introduction to Planning ..................................................... 3
GEO 409G Geographic Information Systems and Science: Fundamentals .................................................. 3
GEO 455 Economic Geography ......................................................... 3
GEO 460 Urban Geography ............................................................. 3
GEO 465 Special Topics in Human Geography ................................... 3
GEO 475G Medical Geography ........................................................ 3
GEO 480 Internship in Geography ..................................................... 3
GEO 544 Human Population Dynamics ............................................. 3
GEO 545 Transportation Geography .................................................. 3
GEO 546 Tourism and Recreation Geography .................................... 3
GEO 547 Geography of Information and Communications ................. 3
GEO 550 Sustainable Resource Development and Environmental Management .................................................. 3
GEO 585 Aging and Environment .................................................... 3

*Course may be used towards fulfilling the University Studies Program requirements.

Track 3: Geographic Information Techniques (GIT)
The Geographic Information Techniques Concentration is concerned with all aspects of geographical information/data, including identification of data sources, collection, storage/retrieval, manipulation, analysis, and visualization. The GIT Concentration encompasses geographical information science (GIS), cartography, remote sensing, and spatial analysis.
geographical information science (GIS), cartography, remote sensing, and spatial analysis.

GEO 309 Digital Geographic Data: Sources, Characteristics, Problems, and Uses ................. 3
GEO 409G Geographic Information Systems and Science: Fundamentals .............................. 3
GEO 415 Map Interpretation ............................................. 3
GEO 480 Internship in Geography ................................. 3
GEO 505 Practicum in Cartography ......................... 3
GEO 506 Introduction to Computer Cartography .. 3
GEO 508 Geographic Interpretation of Aerial Photography ................................................. 3

From Outside the Major Department
Choose 15 hours outside Geography at the 200+ level. Courses used to satisfy USP and College Requirements can also be counted here ...................................................... 15

Major hours: ................................................................. 48

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation ......................................................... 10

Total Minimum Hours
Required for Degree ............................................... 120

*Course used towards completion of a USP Requirement.

Minor in Geography

The minor in geography requires a minimum of 21 hours taken within the department. Students must complete the following courses as follows:

1. GEO 130 Earth’s Physical Environment .......... 3
   GEO 172 Human Geography ................................. 3
   GEO 152 Regional Geography of the World or GEO 160 Lands and Peoples of the Non-Western World ......................................................... 3

2. GEO 300 Geographic Research or GEO 305 Elements of Cartography or GEO 310 Quantitative Techniques in Geography ......................................................... 3

3. Nine additional hours at the 200 level or above.

GEOLOGY

The earth and environmental sciences encompass a variety of types of studies of our planet, including considerations of composition, structure, prehistoric life, internal and surficial processes, and history. These studies have applications in the discovery and use of mineral resources, fuels, and water; in protection of the environment; and in planning for the impact of natural hazards (earthquakes, landslides, etc.) on societal development. Students undertake the study of earth and environmental sciences in the classroom, laboratory, and field.

Students in earth and environmental sciences earn the Bachelor of Science or Bachelor of Arts degree with a major in Geology. The B.S. program is designed for students who plan a career as a professional geologist or who plan to attend graduate school. The B.A. program is designed for students planning a career in government policy relating to earth science and environmental issues, earth-science education, business (environmental consulting), environmental law, or environmental medicine.

Bachelor of Arts with a major in GEOLOGY

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math (completed by Premajor Requirement) ......................................................... 0-8
II. Foreign Language (placement exam recommended) ......................................... 0-8
III. Inference-Logic (completed by Premajor Requirement) ...................................... 0-4
IV. Written Communication ..................................................................................... 0-4
V. Oral Communication ........................................................................................... 3
VI. Natural Sciences (completed by Premajor Requirement) .................................... 4
VII. Social Sciences .................................................................................................. 6
VIII. Humanities ....................................................................................................... 6
IX. Cross-Cultural (with your advisor choose a 300+ level GEO course) .................... 3
X. Electives (choose two Humanities courses) ....................................................... 6

USP hours: ................................................................. 24-36

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .... 3

College Requirements

I. Foreign Language (placement exam recommended) ......................................... 0-8
II. Disciplinary Requirements
   a. Natural Science (completed by Major Requirements) ...................................... 3
   b. Social Science (can be completed by USP Cross-Cultural and Major Requirements) 3
   c. Humanities (completed by USP Elective Requirement) ..................................... 6
III. Laboratory or Field Work (completed by Premajor Requirement) ......................... 4
IV. Electives ............................................................................................................. 6

College Requirement hours: ........................................ 6-14

Premajor Requirements

*CHE 105 General College Chemistry I ................................................................. 3
GLY 220 Principles of Physical Geology ............................................................... 3
GLY 223 Introduction to Geology in the Rocky Mountains .................................... 4-6
GLY 295 Geoscience Orientation ........................................................................ 1
*MA 123 Elementary Calculus and its Applications or MA 113 Calculus I ............. 3-4
PHY 151 Introduction to Physics .............................................................................. 3
PHY 211 General Physics ......................................................................................... 3
PHY 231/241 General University Physics/Lab ...................................................... 3-5

Premajor hours: ................................................................. 14-19

Major Requirements

Major Core Requirements

GLY 230 Fundamentals of Geology I ................................................................. 3
GLY 235 Fundamentals of Geology II ................................................................. 3
GLY 360 Mineralogy ............................................................................................... 4
GLY 420G Structural Geology ............................................................................... 4
GLY 450G Sedimentary Geology ......................................................................... 4
GLY 461 Igneous and Metamorphic Petrology .................................................... 4

Major Core hours: ................................................................. 22

Other Course Work Required for the Major

From the Major Department:
Elective I ........................................................................................................... 6
Choose six hours of GLY courses at the 400+ level, not to include GLY 495 or 496
Elective II ........................................................................................................... 6
Choose six additional hours of 300+ GLY or related courses

NOTE: Fourteen hours at the 200 level or higher must be completed outside Geology. Partial fulfillment of this requirement can be completed by the PHY Sequence, the USP Cross-Cultural, and GLY Elective II
Requirements ...................................................................................................... 8-10

Other Major hours: ................................................................. 20-22

Total Minimum Hours
Required for Degree ................................................................. 120

*Course used towards completion of a USP Requirement.

Bachelor of Science with a major in GEOLOGY

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math (completed by Premajor Requirement) ......................................................... 0-8
II. Foreign Language (placement exam recommended) ......................................... 0-8
III. Inference-Logic (completed by Premajor Requirement) ...................................... 0-4
IV. Written Communication ..................................................................................... 0-4
V. Oral Communication ........................................................................................... 3
VI. Natural Sciences (completed by Premajor Requirement) .................................... 4
VII. Social Sciences .................................................................................................. 6
VIII. Humanities ....................................................................................................... 6
IX. Cross-Cultural (choose a 200+ level Social Science course) ............................... 3
X. Electives (choose a Humanities course) ............................................................ 3

USP hours: ................................................................. 21-33

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .... 3

College Requirements

I. Foreign Language (placement exam recommended) ......................................... 0-8
II. Disciplinary Requirements
   a. Natural Science (completed by Major Requirements) ...................................... 3
   b. Social Science (can be completed by USP Cross-Cultural and Major Requirements) 3
   c. Humanities (completed by USP Elective Requirement) ..................................... 6
   d. Laboratory or Field Work (completed by Premajor Requirement) ......................... 4
   e. Electives ............................................................................................................. 5

College Requirement hours: ................................................................. 6-14

Premajor Requirements

*CHE 105 General College Chemistry I ................................................................. 3
GLY 220 Principles of Physical Geology ............................................................... 3
GLY 223 Introduction to Geology in the Rocky Mountains .................................... 4-6
GLY 295 Geoscience Orientation ........................................................................ 1
*MA 123 Elementary Calculus and its Applications or MA 113 Calculus I ............. 3-4
PHY 151 Introduction to Physics .............................................................................. 3
PHY 211 General Physics ......................................................................................... 3
PHY 231/241 General University Physics/Lab ...................................................... 3-5

Premajor hours: ................................................................. 14-19
### Major Requirements

**Major Core Requirements**
- GLY 220 Principles of Physical Geology or GLY 223 Introduction to Geology in the Rocky Mountains ................. 4-6
- GLY 230 Fundamentals of Geology I ......................... 3
- GLY 235 Fundamentals of Geology II ........................ 3
- GLY 295 Geoscience Orientation ................................ 1

**Electives**
Choose six additional hours of 300+ GLY or related courses

**Premajors:**
Choose six hours of GLY courses at the 400+ level, not to include GLY 495 or 496

**From the Physics Department**
- PHY 231/232/241/242 General University Physics 10
Note: Fourteen hours at the 200 level or higher must be completed outside Geology. Partial fulfillment of this requirement can be completed by the PHY Sequence, the USP Cross-Cultural, and GLY Elective II Requirements 0-4

**Other USP Core Requirements**
- General Chemistry II ................................................. 2
- *CHE 107 General College Chemistry II .................... 3
- CHE 111 Laboratory to Accompany General Chemistry I ................................. 1
- CHE 113 Laboratory to Accompany General Chemistry II ................................ 2
- CHE 200 Principles of Physical Geology or CHE 223 Introduction to Geology in the Rocky Mountains ....................... 4-6
- CHE 230 Fundamentals of Geology I .......................... 3
- CHE 335 Fundamentals of Geology II ........................ 3
- **Lab Requirements:**
  - **Lab Hours:** 1-2

**Other Course Work Required for the Major**

**From the Major Department:**
- Elective I .................................................................. 6
  - Choose six hours of GLY courses at the 400+ level, not to include GLY 495 or 496

**Elective II .................................................................. 6
  - Choose six additional hours of 300+ GLY or related courses

**From the Physics Department**
- PHY 231/232/241/242 General University Physics 10
Note: Fourteen hours at the 200 level or higher must be completed outside Geology. Partial fulfillment of this requirement can be completed by the PHY Sequence, the USP Cross-Cultural, and GLY Elective II Requirements 0-4

**Other Major hours: ............................................... 22

**Total Minimum Hours Required for Degree: ........................ 123**

*Course used towards completion of a USP Requirement.

### HISPANIC STUDIES

The Department of Hispanic Studies aims to develop the student’s language skills, to provide an understanding of the cultures and literatures of the Spanish-speaking world, and to enhance the student’s career opportunities in a multicultural society. The department offers a major and a minor in Spanish.

**Bachelor of Arts with a major in SPANISH**

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101–103.

**University Studies Program Requirements**

I. Math ...................................................................... 0-3
II. Foreign Language (completed by Premajor Requirement) III. Inference-Logic ........................................... 3-6
IV. Written Communication ....................................... 0-4
V. Oral Communication .............................................. 3
VI. Natural Sciences ................................................... 6
VII. Social Sciences ..................................................... 6
VIII. Humanities .......................................................... 6
IX. Cross-Cultural (choose a 300+ level Social Science course) ................. 3-X. Electives (choose two Natural Science courses) .......................... 6

**USP hours: ......................................................... 33-43**

**Graduation Writing Requirement**

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

**Graduation Writing Requirement Hours: ........................................... 3**

**College Requirements**

I. Foreign Language (completed by Premajor Requirement)
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement)
   b. Social Science (partially completed by USP Cross-Cultural Requirement)
   c. Humanities (completed by Major Requirements)
III. Laboratory or Field Work ..................................... 1
IV. Electives ................................................................. 6

**College Requirement hours: ............................................... 10**

**Premajors:**

SPA 201 Intermediate Spanish III .......................... 3
SPA 202 Intermediate Spanish IV ............................ 3
SPA 210 Spanish Grammar and Syntax ..................... 3
SPA 211 Intermediate Spanish Conversation .............. 3

**Premajors hours: ....................................................... 12**

### Major Requirements

**Major Core Requirements**
- SPA 310 Spanish Composition through
  - Textual Analysis .................................................. 3

**Other Course Work Required for the Major**

**From the Major Department:**
Choose 18-27 hours of 300+ level Spanish courses to include at least six hours of literature, and at least nine hours at the 400+ level ......................................................... 18-27

**From Outside the Major Department**
Choose 15 hours outside Spanish at the 200+ level from the following areas: anthropology, Arabic, art history, classics, English, French, geography, German, history, honors, Islamic studies, Italian, Japanese, Judaic studies, Latin American studies, linguistics, music, philosophy, political science, Portuguese, Russian, sociology, theater, women’s studies. Courses from other areas may be used with the approval of the Director of Undergraduate Studies. 200+ level courses used to satisfy USP and College requirements can also be counted here ... 15-21

**Other Major hours: .................................................... 39**

**Electives**
Choose electives to lead to the minimum total of 120 hours required for graduation ..................... 11

**Total Minimum Hours Required for Degree: ........................ 120**

### Bachelor of Science with a major in SPANISH

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an SPA prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103–104.

**University Studies Program Requirements**

I. Math ...................................................................... 0-3
II. Foreign Language (completed by Premajor Requirement)
III. Inference-Logic ........................................... 3-6
IV. Written Communication ....................................... 0-4
V. Oral Communication .............................................. 3
VI. Natural Sciences ................................................... 6
VII. Social Sciences ..................................................... 6
VIII. Humanities .......................................................... 6
IX. Cross-Cultural (choose a Social Science course) ................. 3-X. Electives (choose two Natural Science courses) .......................... 6

**USP hours: ......................................................... 33-43**

**Graduation Writing Requirement**

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

**Graduation Writing Requirement Hours: ........................................... 3**

**College Requirements**

I. Foreign Language (completed by Premajor Requirement)
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement)
   b. Social Science (partially completed by USP Cross-Cultural Requirement)
   c. Humanities (completed by Major Requirements)
III. Laboratory or Field Work ..................................... 1
IV. Electives ................................................................. 6

**College Requirement hours: ............................................... 10**

**Premajors:**

SPA 201 Intermediate Spanish III .......................... 3
SPA 202 Intermediate Spanish IV ............................ 3
SPA 210 Spanish Grammar and Syntax ..................... 3
SPA 211 Intermediate Spanish Conversation .............. 3

**Premajors hours: ....................................................... 12**

### Minor in Geology

**Hours**

The minor consists of nineteen hours to include:
- GLY 220 Principles of Physical Geology .................. 4
- GLY 230 Fundamentals of Geology I ..................... 3
- GLY 235 Fundamentals of Geology II .................... 3
Plus nine hours in GLY courses at the 300 level or higher .............................. 9
The requirements for teacher certification in secondary education include:

### College Requirements

I. **Foreign Language** (completed by Premajor Requirement)
   
II. **Disciplinary Requirements**
   
   a. **Natural Science** (completed by USP Elective Requirement)
   
   b. **Social Science** (completed by USP Cross-Cultural Requirement)
   
   c. **Humanities** (completed by Major Requirements)

III. **Laboratory or Field Work**

IV. **Electives**

**College Requirement hours:** ................. 7

### Premajor Requirements

- SPA 201 Intermediate Spanish III
- SPA 202 Intermediate Spanish IV
- SPA 210 Spanish Grammar and Syntax
- SPA 211 Intermediate Spanish Conversation

**Premajor hours:** .................................. 12

### Major Requirements

**Major Core Requirements**

- SPA 310 Spanish Composition through Textual Analysis

**Major core hours:** .................................. 3

**Other Course Work Required for the Major**

**From the Major Department:**

Choose 18-27 hours of 300+ level Spanish courses to include at least six hours of literature, and at least nine hours at the 400+ level.

**From Outside the Major Department:**

Choose 15 hours outside Spanish at the 200+ level from the following areas: anthropology, Arabic, art history, classics, English, French, geography, German, history, honors, Islamic studies, Italian, Japanese, Judaic studies, Latin American studies, linguistics, music, philosophy, political science, Portuguese, Russian, sociology, theatre, women’s studies. Courses from other areas may be approved by the Director of Undergraduate Studies. 200+ level courses used to satisfy USP and College requirements can also be counted here.

**Other Major hours:** ................................ 15-21

### Electives

Choose electives to lead to the minimum total of 120 hours required for graduation.

**Total Minimum Hours Required for Degree:** .............. 120

### Teacher Certification Requirements

The requirements for teacher certification in secondary foreign languages are outlined in the College of Education section of this Bulletin.

### Minor in Spanish

The minor in Spanish requires a total of 21 hours based on the following distribution:

1. SPA 202 or SPA 242 or equivalent
2. SPA 210
3. SPA 211
4. Beyond the first six-semester sequence, twelve additional hours which must be taken at the 300 level or above. (At least one course, three hours, must be taken in Spanish or Spanish-American literature.)

**Note:** No courses taken in translation may be counted toward the minor in Spanish.

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### HISTORY

The Department of History’s program seeks to expand understanding of human experience and enable students to learn about their world in light of its past. The department offers a wide range of courses. These courses, an essential part of a liberal arts education, are also designed to train students to be teachers of history and professional historians. Faculty and students in the department participate in many of the University’s interdisciplinary programs such as African American studies, women’s studies, Latin American studies, and Asian studies.

### Bachelor of Arts with a major in HISTORY

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

### University Studies Program Requirements

<table>
<thead>
<tr>
<th>Program</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Math</td>
<td>0-3</td>
</tr>
<tr>
<td>II. Foreign Language</td>
<td>0-8</td>
</tr>
<tr>
<td>III. Inference–Logic</td>
<td>3-6</td>
</tr>
<tr>
<td>IV. Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>V. Oral Communication</td>
<td>0-4</td>
</tr>
<tr>
<td>VI. Natural Sciences</td>
<td>3-6</td>
</tr>
<tr>
<td>VII. Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td>VIII. Humanities (completed by Premajor Requirements)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Minimum Hours:** ................. 39

### Graduation Writing Requirement

Students may satisfy the Graduation Writing Requirement by completing either HIS 499 or HIS 471, required in the Major Requirements:

**Graduation Writing Requirement Hours:** ................. 3

### College Requirements

**I. Foreign Language** (placement exam recommended)

**II. Disciplinary Requirements**

a. **Natural Science** (completed by USP Elective Requirement)

b. **Social Science** (completed by USP Cross-Cultural Requirement)

c. **Humanities** (completed by Major Requirements)

III. Laboratory or Field Work

**IV. Electives**

**College Requirement hours:** ................. 10-18

### Premajor Requirements

*HIS 104 History of Europe through the Mid-17th Century* and
*HIS 105 A History of Europe from the Mid-17th Century to Present*

**Premajor hours:** .................................. 6

### Major Requirements

**Major Core Requirements**

HIS 301 History Workshop: Introduction to the Study of History

HIS 499 Senior Seminar for History Majors

HIS 470 Honors Seminar in Historical Methods

**Major Core hours:** .................................. 6

### Other Course Work Required for the Major

**From the Major Department:**

Choose 24 hours to include at least six hours in pre-1789 work; at least six hours in post-1789 work; at least three hours in American history; at least three hours of European history; at least three hours in the history of Africa, Asia, Latin America, or the Middle East. At least 15 of these hours must be at the 300+ level.

**From Outside the Major Department:**

Choose 15 hours outside History at the 300+ level, or 200+ level courses used to satisfy USP and College requirements can also be counted here. Foreign language instruction courses may not be used to fulfill the related field requirement. Literature, civilization, and culture classes do count toward fulfilling this requirement.

**Other Major hours:** ................................ 15

### Electives

Choose electives to lead to the minimum total of 120 hours required for graduation.

**Total Minimum Hours Required for Degree:** .............. 120

*Course used towards completion of a USP Requirement.

### Bachelor of Science with a major in HISTORY

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an HIS prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

### University Studies Program Requirements

<table>
<thead>
<tr>
<th>Program</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Math</td>
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</tr>
<tr>
<td>IV. Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>V. Oral Communication</td>
<td>0-4</td>
</tr>
<tr>
<td>VI. Natural Sciences</td>
<td>3</td>
</tr>
<tr>
<td>VII. Social Sciences</td>
<td>6</td>
</tr>
</tbody>
</table>
Minor in History
A minor in history provides training in critical thinking and expression and a valuable perspective on the varieties of civilizations and modes of human behavior. The minor requires a minimum of 18 hours, to be distributed as follows:
1. A six-hour sequential introduction to the history of a civilization or a nation. This may be selected from:
   - HIS 104/105 History of Europe
   - HIS 106/107 Western Culture: Science and Technology I and II
   - HIS 108/109 History of the United States
   - HIS 202/203 History of the British People
   - HIS 229/230 The Ancient World
   - HIS 247/248 History of Islam and Middle East Peoples
   - HIS 295/296 East Asia
   - HIS 370/371 Middle Ages
   - HIS 385/386 History of Russia
2. Twelve hours of course work at or above the 300 level, at least six hours of which must be at or above the 400 level. No more than 12 of the 18 hours required may be in any one of the subfields of American history, European history, or history of the non-Western world.

LATIN AMERICAN STUDIES
The Latin American Studies program provides an integrated, interdisciplinary approach to the study of a geographical and cultural region. The core course (LAS 201), the senior course in directed research, and careful faculty supervision are essential components of the degree program. Students choose, however, from a variety of courses in anthropology, economics, geography, history, political science, the Spanish language and Spanish American literature.

Bachelor of Arts with a major in LATIN AMERICAN STUDIES
120 hours (minimum)
Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements
I. Math ......................................................... 0-3
II. Foreign Language (completed by Major Requirement) ......................
III. Inference–Logic .......................................... 3-6
IV. Written Communication ........................................ 0-4
V. Oral Communication .......................................... 3
VI. Natural Sciences .......................................... 6
VII. Social Sciences .......................................... 6
VIII. Humanities ............................................... 6
IX. Cross-Cultural (completed by Premajor Requirement) .................
X. Electives (choose two Natural Science courses) ......................... 6

College requirements can also be counted here 39

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation 3-39

Total Minimum Hours Required for Degree 120

Graduation Writing Requirement
After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: 3-7
ment in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math ......................................................... 0-3
II. Foreign Language (completed by Major Requirement) .................. 3-6
III. Inference–Logic ........................................... 3-6
IV. Written Communication ........................................ 0-4
V. Oral Communication ........................................... 3
VI. Natural Sciences ............................................. 6
VII. Social Sciences ............................................. 6
VIII. Humanities .................................................. 6
IX. Cross-Cultural (completed by Premajor Requirement) ............. 3
X. Electives (choose two Natural Science courses) .................... 3
USP hours: ............................................. 30-40

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: 3

College Requirements

I. Foreign Language (completed by Major Requirement) ........... 3
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) .......
   b. Social Science (completed by Major Requirement) ...........
   c. Humanities (completed by Major Requirements) ............
III. Laboratory or Field Work ........................................ 1
IV. Electives ....................................................... 6

Premajor Requirements: ....................... 7

Premajor Requirements

*LAS 201 Introduction to Latin America ..................... 3
HIS 206 History of Colonial Latin America, 1492-1810 or
HIS 207 History of Modern Latin America, 1810-Present ............ 3

Premajor hours: .......................................... 6

Major Requirements

Major Core Requirements

LAS 401 Directed Research in Latin American Studies ........... 3

Major Core hours: ........................................ 3

Other Course Work Required for the Major

For the Latin American Component:

Language Skills .................................................. 6
Choose from: SPA 210, 211, 302, 310, 311, 411G, 501, 503

Prehistory and History ........................................... 3
Choose from: ANT 320, 322, HIS 206, 207, 561, 562, 563, LAS 395

Contemporary Latin American Societies ................................ 6

Literature and the Arts of the Americas ................................ 3
Choose from: LAS 395, SPA 322, 438G, 468G

Elective ........................................................... 3
Choose from any of the areas above

Bachelor of Arts with a major in

LINGUISTICS

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math ......................................................... 0-3
II. Foreign Language (completed by Premajor Requirement) .......
III. Inference–Logic ........................................... 3-6
IV. Written Communication ........................................ 0-4
V. Oral Communication ........................................... 3
VI. Natural Sciences ............................................. 6
VII. Social Sciences ............................................. 6
VIII. Humanities .................................................. 6
IX. Cross-Cultural (choose a 300+ level Social Science course) .... 3
X. Electives (choose two Natural Science courses) .............. 6

USP hours: ............................................. 33-43

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: ... 3

College Requirements

I. Foreign Language (completed by Premajor Requirement) .......
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) ....
   b. Social Science (completed by Major Requirement) ...........
   c. Humanities (completed by Major Requirements) ............
III. Laboratory or Field Work ........................................ 1
IV. Electives ....................................................... 6

College Requirement hours: ....................... 10

Premajor Requirements

Complete the third and fourth semesters of a foreign language (or the equivalent) ............ 6-8

Premajor hours: ........................................... 6-8

Major Requirements

Major Core Requirements

LIN 211 Introduction to Linguistics I ....................... 3
LIN 212 Introduction to Linguistics II ....................... 3
plus three of the following:
LIN 318 Semantics and Pragmatics
LIN 512 Modern English Grammar
LIN 513 Teaching English as a Second Language
LIN 515 Phonological Analysis
LIN 516 Grammatical Analysis ............................. 9

Major Core hours: ........................................ 15

Other Course Work Required for the Major

For the Linguistics Component:

Choose 12 hours of linguistics courses ................. 12

For the Related Component:

Choose 21 hours outside Linguistics at the 300+ level. Courses are generally chosen from such disciplines as anthropology, communications, computer science, languages, mathematics, philosophy, and psychology. 200+ level courses used to satisfy USP and College requirements can also be counted here .......... 21

Other Major hours: ....................... 33

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .......... 9

Total Minimum Hours Required for Degree: .......... 120

Note: Course used towards completion of a USP Requirement.
Bachelor of Science with a major in **LINGUISTICS**

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note; courses with an LIN prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I.  Math .................................................................. 0-3
II.  Foreign Language (completed by Premajor Requirements) .............................................. 3-6
III.  Inference–Logic .................................................. 3-6
IV.  Written Communication ..................................... 0-4
V.  Oral Communication ............................................. 3
VI.  Natural Sciences ................................................... 6
VII.  Social Sciences ..................................................... 6
VIII. Humanities .......................................................... 6
IX.  Cross-Cultural (choose a Social Science course) .......................................................... 3
X.  Electives (choose two Natural Science courses) .......................................................... 6
USP hours: ................................................................ 33-43

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .... 3

College Requirements

I.  Foreign Language (completed by Premajor Requirements) .............................................. 3-6
II.  Disciplinary Requirements
   a.  Natural Science (completed by USP Elective Requirement) ............................................. 3
   b.  Social Science (completed by USP Cross-Cultural Requirement) ..................................... 3
   c.  Humanities (completed by Major Requirements) ............................................................ 3
III.  Laboratory or Field Work ........................................................................................................... 1
IV.  Electives ................................................................................................................................. 6
College Requirement hours: ............... 7

Premajor Requirements

Complete the third and fourth semesters of a foreign language (or the equivalent) ........................................ 6-8
Premajor hours: ........................................ 6-8

Major Requirements

Major Core Requirements

LIN 211 Introduction to Linguistics I ........................................ 3
LIN 212 Interdiction to Linguistics II ........................................ 3
plus three of the following:
LIN 318 Semantics and Pragmatics ........................................ 3
LIN 512 Modern English Grammar ........................................ 3
LIN 513 Teaching English as a Second Language .................... 3
LIN 515 Phonological Analysis ............................................. 3
LIN 516 Grammatical Analysis ............................................. 9

Major Core hours: ................................................................ 15

Other Course Work Required for the Major

For the Linguistics Component:

Choose 12 hours of linguistics courses .................................. 12

For the Related Component:

Choose 21 hours outside Linguistics at the 300+ level. Courses are generally chosen from such disciplines as anthropology, communications, computer science, languages, mathematics, philosophy, and psychology. 200+ level courses used to satisfy USP and College requirements can also be counted here ........................................ 21

Other Major hours: ........................................ 33

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation ........................................ 12

Total Minimum Hours Required for Degree ........................................ 120

Note: Course used towards completion of a USP Requirement.

Minor in Linguistics

The minor in linguistics requires 18 hours of course work to be selected as follows:

1.  ENG/LIN 211
2.  ENG/LIN 212

Major Area Courses (6 hours):

Choose from: LIN 318, ENG/LIN 515, ENG/LIN 516, ENG/LIN 512, EDC/ENG/LIN 513.

To make up the total of 18 hours, choose two courses from among the remaining LIN courses, including any of those listed above.

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**MATHEMATICAL ECONOMICS**

The mathematical economics major offers students a degree program that combines mathematics, statistics, and economics. In today’s increasingly complicated international business world, a strong preparation in the fundamentals of both economics and mathematics is crucial to success. This degree program is designed to prepare a student to go directly into the business world with skills that are in high demand, or to go on to graduate study in economics or finance. A degree in mathematical economics would, for example, prepare a student for the beginning of a career in operations research or actuarial science.

In many ways, the mathematical economics program parallels the engineering philosophy. It combines the quantitative methods of mathematics with an applied science in order to solve real problems. As an example, operations research is used to optimize costs for extremely complicated systems such as airline scheduling. A major problem in business and economics is decision making under uncertainty. Efficient inventory control for large national retail chains can mean the difference between success and failure. A business will improve its bottom line if it can effectively control cost of inventory under the uncertainty of consumer demand. The solution of control problems of this type requires knowledge of relatively sophisticated mathematics and statistics as well as knowledge of basic economic principles.

There is currently a serious shortage of individuals who have sufficient training in mathematics and statistics as well as an understanding of business and economics. Companies that employ operations research analysts or actuaries cannot fill their positions. Mathematical economics and related areas have often been referred to as engineering for the service sector or “financial engineering.” With the ever increasing importance of the service sector in our economy, the math-econ degree will prove to be a valuable asset. The program will give the student an opportunity to study a fascinating collection of ideas and it will also provide the student with very marketable skills.

Bachelor of Arts with a major in **MATHEMATICAL ECONOMICS**

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I.  Math (completed by Premajor Requirement) .............................................. 3-6
II.  Foreign Language (placement exam recommended) .............................................. 0-8
III.  Inference–Logic (completed by Premajor Requirement) .............................................. 0-4
IV.  Written Communication .................................................................................. 0-4
V.  Oral Communication* (can be partially completed by Major Requirement) .............................................. 1
VI.  Natural Sciences ............................................................................................................. 6
VII.  Social Sciences (partially completed by Major Requirement) .............................................. 3
VIII. Humanities .................................................................................................................. 6
IX.  Cross-Cultural (choose a 300+ level Humanities course) .............................................. 3
X.  Electives (choose two Natural Science courses) .......................................................... 6

USP hours: ................................................................ 25-37

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .... 3

College Requirements

I.  Foreign Language (placement exam recommended) .............................................. 0-8
II.  Disciplinary Requirements
   a.  Natural Science (completed by USP Elective Requirement) ............................................. 3
   b.  Social Science (completed by Major Requirements) .......................................................... 3
   c.  Humanities (partially completed by USP Cross-Cultural Requirement) ............................................. 3
III.  Laboratory or Field Work ............................................................................................................. 1
IV.  Electives ................................................................................................................................. 6
College Requirement hours: ...................... 10-18

Premajor Requirements

*MA 113 Calculus I .............................................. 4
MA 114 Calculus II .............................................. 4
Premajor hours: ........................................ 8
Major Requirements
Mathematics Core Requirements
MA 213 Calculus III ............................................. 4
MA 214 Calculus IV .............................................. 3
MA 320 Introductory Probability ................................ 3
MA 322 Matrix Algebra and its Applications ........... 3
Mathematics Core hours: ...................................... 13
Economics Core Requirements
*ECO 201 Principles of Economics I ...................... 3
ECO 202 Principles of Economics II ...................... 3
ECO 391 Economic and Business Statistics ............ 3
ECO 401 Intermediate Microeconomic Theory ........ 3
ECO 402 Intermediate Macroeconomic Theory ....... 3
Economics Core hours: ...................................... 15
Other Course Work Required for the Major
For the Mathematics Component:
Choose one of the following sequences: MA 416G and MA 417G, MA 471G and MA 472G, or STA 524 and STA 525 .............................. 6
For the Economics Component
*Choose nine hours of 300+ level economics courses ........................................................................ 9
For the Statistics Component
Choose STA 291 or a higher level statistics course ... 3
Other Major hours: ............................................... 18
Electives
Choose electives to lead to the minimum total of 120 hours required for graduation ................................................. 9
Total Minimum Hours Required for Degree .......... 120
*Course used towards completion of a USP Require-
ment.
*COM 199 + ECO 499 satisfy the Oral Communi-
ation Requirement.

Bachelor of Science with a major in MATHEMATICAL ECONOMICS

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an ECO prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements
I. Math (completed by Premajor Requirement) ............................................. 0-8
II. Foreign Language (placement exam recommended) .......................... 0-8
III. Inference-Logic (completed by Premajor Requirement) ................. 0-8
IV. Oral Communication* (can be partially completed by Major Requirement) ............................................. 0-4
V. Natural Sciences ............................................................................. 6
VI. Social Sciences (partially completed by Major Requirement) .......... 6
VII. Humanities ................................................................................. 3
VIII. Humanities ................................................................................. 3
IX. Cross-Cultural (choose a Humanities course) ................................ 3
X. Electives (choose two Natural Science courses) ............................. 6

USP hours: ......................................................... 25-37

Graduation Writing Requirement
After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: 3

College Requirements
I. Foreign Language (placement exam recommended) .......................... 0-8
II. Disciplinary Requirements
a. Natural Science (completed by USP Elective Requirement) ......... 0-8
b. Social Science .............................................................................. 0-8
c. Humanities (completed by USP Cross-Cultural Requirement) .... 0-8
III. Laboratory or Field Work ......................................................... 1
IV. Electives .................................................................................... 0-8

College Requirement hours: ........................................ 7-15

Premajor Requirements
*MA 113 Calculus I ........................................................................ 4
MA 114 Calculus II ........................................................................ 4
Premajor hours: ......................................................... 8

Major Requirements
Mathematics Core Requirements
MA 213 Calculus III .................................................. 4
MA 214 Calculus IV .................................................. 3
MA 320 Introductory Probability .................................. 3
MA 322 Matrix Algebra and its Applications .............. 3
Mathematics Core hours: ............................................ 13
Economics Core Requirements
*ECO 201 Principles of Economics I ......................... 3
ECO 202 Principles of Economics II ......................... 3
ECO 391 Economic and Business Statistics .............. 3
ECO 401 Intermediate Microeconomic Theory .......... 3
ECO 402 Intermediate Macroeconomic Theory ....... 3
Economics Core hours: ............................................ 15
Other Course Work Required for the Major
For the Mathematics Component:
Choose one of the following sequences: MA 416G and MA 417G, MA 471G and MA 472G, or STA 524 and STA 525 .............................. 6
For the Economics Component
*Choose nine hours of 300+ level economics courses ........................................................................ 9
For the Statistics Component
Choose STA 291 or a higher level statistics course ... 3
Other Major hours: ............................................... 18
Electives
Choose electives to lead to the minimum total of 120 hours required for graduation ................................................. 9
Total Minimum Hours Required for Degree .......... 120
*Course used towards completion of a USP Require-
ment.
*COM 199 + ECO 499 satisfy the Oral Communi-
ation Requirement.

Bachelor of Arts with a major in MATHEMATICS

121 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements
I. Math (completed by Premajor Requirement) ............................................. 0-8
II. Foreign Language (placement exam recommended) .......................... 0-8
III. Inference-Logic (completed by Premajor Requirement) ................. 0-8
IV. Written Communication ......................................................... 0-4
V. Oral Communication .................................................................. 3
VI. Natural Sciences ......................................................................... 6
VII. Social Sciences ......................................................................... 6
VIII. Humanities ............................................................................... 6
IX. Cross-Cultural (choose a 300+ level Humanities course) ............ 3
X. Electives (choose two Natural Science courses) ............................. 6
USP hours: ......................................................... 30-42

Graduation Writing Requirement
After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: 3

College Requirements
I. Foreign Language (placement exam recommended) .......................... 0-8
II. Disciplinary Requirements
a. Natural Science (completed by USP Elective Requirement) ......... 0-8
b. Social Science .............................................................................. 0-8
c. Humanities (partially completed by USP Cross-Cultural Requirement) ......................................................... 3
III. Laboratory or Field Work ......................................................... 1
IV. Electives .................................................................................... 0-8

College Requirement hours: ........................................ 16-24

OPTION A - Mathematics

Premajor Requirements
*MA 113 Calculus I ........................................................................ 4
MA 114 Calculus II ........................................................................ 4
CS 115 Introduction to Computer Programming ............. 3
Premajor hours: ......................................................... 11

Major Requirements
Mathematics Core Requirements
MA 213 Calculus III .................................................. 4
MA 214 Calculus IV .................................................. 3
MA 322 Matrix Algebra and its Applications .............. 3
Major Core hours: .................................................. 10

MA 214 Calculus IV .................................................. 3
MA 322 Matrix Algebra and its Applications .............. 3

Major Core hours: .................................................. 10
Other Course Work Required for the Major
From the Major Department:
Choose 18 hours of 300+ level mathematics courses. One of the following sequences, or a substitute approved by the Director of Undergraduate Studies, must be included: MA 351/352, MA 361/362, MA 471G/472G, MA 481G/483G, CS/MA 321/422, CS/MA 416G and MA/STA 417G, MA 433G/485G; at least two of the following must be included (they can also count as the sequence if appropriate): MA 351, 352, 361, 362, 471G, 472G.
May not include MA 322.
From Outside the Major Department
Choose 14 hours outside Mathematics at the 300+ level. Courses are generally chosen from physics, chemistry, biology, logic, statistics, computer science, economics, and engineering. 200+ level courses used to satisfy USP and College requirements can also be counted here.

Other Major hours: .......................... 18

OPTION B - Mathematical Sciences
Premajor Requirements
*MA 113 Calculus I ................................................. 4
MA 114 Calculus II .................................................. 4
CS 115 Introduction to Computer Programming ........ 3
CS 215 Introduction to Program Design, Abstraction and Problem Solving ........................................ 4

Premajor hours: .............................................. 15

Major Requirements
Major Core Requirements
MA 213 Calculus III .................................................. 4
MA 214 Calculus IV .................................................... 3
CS 216 Introduction to Software Engineering .......... 3
STA 281 Probability and Statistics Using Interactive Computer Techniques ........................................ 3
MA/STA 320 Introductory Probability .................... 3
CS/MA 321 Introduction to Numerical Methods ....... 3
STA 321 Basic Statistical Theory I ............................ 3
MA 322 Matrix Algebra and its Applications .......... 3
CS/MA 416G Principles of Operations Research I ..... 3
STA 422G Basic Statistical Theory II ........................ 3

Major Core hours: ......................................... 31

Other Course Work Required for the Major
From the Major Department:
Choose one of the following: MA 361, MA 433G, MA 471G .......................... 3
Choose nine hours of 300+ level mathematics courses. One of the following sequences, or a substitute approved by the Director of Undergraduate Studies, must be included: MA 481G/483G, CS/MA 321/422, CS/MA 416G and MA/STA 417G, CS 315/450G. A substitute sequence may be approved upon petition by the student to the Director of Undergraduate Studies. Approved courses in the mathematical sciences include those courses in computer science, engineering mechanics, mathematics, and statistics which are not of a service nature.

From Outside the Major Department
Choose nine hours outside Mathematics at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here.

Other Major hours: ........................................... 21

Total Minimum Hours
Required for Degree: 121

*Course used towards completion of a USP or College Requirement.

Bachelor of Science with a major in
MATHEMATICS

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements
I. Math (completed by Premajor Requirement) ...
II. Foreign Language (placement exam recommended) ......................................................... 0-8
III. Inference–Logic (completed by Premajor Requirement) ............................................. 0-8
IV. Written Communication ............................................. 0-4
V. Oral Communication ................................................ 0-3
VI. Natural Science ...................................................... 0-6
VII. Social Sciences ....................................................... 0-6
VIII. Humanities ............................................................ 6
IX. Cross-Cultural (choose a Humanities course) .............................................................. 3
X. Electives (choose one Social Science and one Natural Science course) .................... 6

USP hours: ......................................................... 30-42

Graduation Writing Requirement
After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: ...................................................... 3

College Requirements
I. Foreign Language (placement exam recommended) ......................................................... 0-8
II. Disciplinary Requirements
a. Natural Science (completed by USP Elective Requirement) ................................... 0-8
b. Social Science (completed by USP Elective Requirement) ..................................... 0-8
c. Humanities (completed by USP Cross-Cultural Requirement) .................................. 6
III. Laboratory or Field Work ......................................................................................... 1
IV. Electives .................................................................................................................. 6

College Requirement hours: ........................................ 6-14

OPTION A - Mathematics
Premajor Requirements
*MA 113 Calculus I .......................................................... 4
MA 114 Calculus II ......................................................... 4
CS 115 Introduction to Computer Programming .... 3

Premajor hours: ......................................................... 11

Major Requirements
Major Core Requirements
MA 213 Calculus III .................................................... 4
MA 214 Calculus IV ....................................................... 3
MA 322 Matrix Algebra and its Applications ........ 3

Major Core hours: ................................................. 10

Other Course Work Required for the Major
From the Major Department:
Choose 18 hours of 300+ level mathematics courses. One of the following sequences, or a substitute approved by the Director of Undergraduate Studies, must be included: MA 351/352, MA 361/362, MA 471G/472G, MA 481G/483G, CS/MA 321/422, CS/MA 416G and MA/STA 417G, MA 433G/485G; at least two of the following must be included (they can also count as the sequence if appropriate): MA 351, 352, 361, 362, 471G, 472G.
May not include MA 322 ....................... 18

From Outside the Major Department
Choose 14 hours outside Mathematics at the 300+ level. Courses are generally chosen from physics, chemistry, biology, logic, statistics, computer science, economics, and engineering. 200+ level courses used to satisfy USP and College requirements can also be counted here.

Other Major hours: .................................................. 14

OPTION B - Mathematical Sciences
Premajor Requirements
*MA 113 Calculus I .......................................................... 4
MA 114 Calculus II ......................................................... 4
CS 115 Introduction to Computer Programming .... 3
CS 215 Introduction to Program Design, Abstraction and Problem Solving ................. 4

Premajor hours: ......................................................... 15

Major Requirements
Major Core Requirements
MA 213 Calculus III .................................................... 4
MA 214 Calculus IV ....................................................... 3
CS 216 Introduction to Software Engineering .......... 3
STA 281 Probability and Statistics Using Interactive Computer Techniques .................. 3
MA/STA 320 Introductory Probability .................... 3
CS/MA 321 Introduction to Numerical Methods ....... 3
STA 321 Basic Statistical Theory I ............................ 3
MA 322 Matrix Algebra and its Applications .......... 3
CS/MA 416G Principles of Operations Research I ..... 3
STA 422G Basic Statistical Theory II ........................ 3

Major Core hours: ................................................. 31

Other Course Work Required for the Major
From the Major Department:
Choose one of the following: MA 361, MA 433G, MA 471G .......................... 3
Choose nine hours of 300+ level mathematics courses. One of the following sequences, or a substitute approved by the Director of Undergraduate Studies, must be included: MA 481G/483G, CS/MA 321/422, CS/MA 416G and MA/STA 417G, CS 315/450G. A substitute sequence may be approved upon petition by the student to the Director of Undergraduate Studies. Approved courses in the mathematical sciences include those courses in computer science, engineering mechanics, mathematics, and statistics which are not of a service nature.

From Outside the Major Department
Choose nine hours outside Mathematics at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here.

Other Major hours: .................................................. 21

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation.......................... 0-9

Total Minimum Hours
Required for Degree: 120

*Course used towards completion of a USP or College Requirement.

Mathematics Cooperative Education
Qualified students who major in mathematics may participate in the Mathematical Sciences Cooperative Education Program which provides the opportunity for alternate semesters of academic study and full-time employment in business or industry. Guidelines and application forms are available in the Engineering/Math Sciences Co-op Program Office, 320 Robotics Building.
Minor in Mathematics
Students who minor in mathematics must complete the following:
1. MA 113/114 Calculus I and II and .............. 8
   MA 213 Calculus III ................................. 4 
or equivalent
2. MA 322 Matrix Algebra and Its Applications . 3 
or equivalent
3. Six additional hours of mathematics courses num-
   bered greater than 213. Possible courses include: MA
   214, MA 261, MA 320, MA 321, MA 330, MA 341, MA
   351, MA 361, or any 400 level math course.

MILITARY SCIENCE
AND LEADERSHIP
(Army Officer Commissioning)

The Army Reserve Officers’ Training pro-
gram at the University of Kentucky is open to
both men and women and follows a general
military science curriculum that is normally
completed in four years but which may be
completed in two years. An academic major in
military science is not offered. The program’s
primary objective is to commission the future
leadership of the line branches of the Active
Army, Army National Guard, and U.S. Army
Reserve.

Scholarships

Students interested in Army ROTC schol-
arships should contact the Army ROTC Ad-
missions Officer at (859) 257-6865; or visit
101 Barker Hall on campus. Additionally, students
should refer to the Student Financial Aid, Awards,
and Benefits section of this Bul-
letin.

Academic Program

Successful completion of 20 credit hours of
military science courses while simultaneously
completing undergraduate or graduate degree
requirements qualifies a student to be commis-
sioned as a Second Lieutenant in the U.S.
Army. Required program courses are: AMS
101, AMS 102, AMS 211, AMS 212, AMS
301, AMS 302, AMS 341, AMS 342, an
approved military history course, a computer
science course, and continuous enrollment (or participation) in KHP 107 once contracted in
the ROTC program. Also, cadets attend a five-
week Leadership Development Assessment
Course, usually in the summer between the
junior and senior years.

An alternative two-year program is available
for students with at least two academic
years remaining until graduation and who have
not completed the AMS 100- and AMS 200-
level courses. This program is particularly
suited to community college students trans-
ferring to the University, or students who did
not participate in the Basic Program during
their freshman and sophomore years. Stu-
dents should contact the Professor of Military
Science about the five-week summer Leader-
ship Training Course conducted each summer
at Fort Knox, Kentucky. Successful comple-
tion of the camp enables students to take AMS
300-level courses and complete the precom-
mission program in two years.

In certain cases, veterans or students who
have completed Army basic training are also
eligible to complete the program in two years.
Members of the Army National Guard or U.S.
Army Reserve may also directly enroll in the
Leadership Development Assessment Course
and participate in the Simultaneous Member-
ship Program (SMP).

The Basic Course: (100 and 200 level) are
orientational and deal with the Army’s role in
the U.S. government. American military his-
tory, small unit organizations/operations, mili-
tary geography/map reading and some adven-
ture training are also addressed. No military
obligation is incurred by completion of the
courses.

The Advanced Course: (300 level) focus
on leadership, management, and command/
staff responsibilities within military organiza-
tions. All upper division Army ROTC stu-
dents receive $450+ per month tax-free sub-
istence pay during the academic year. During
the summer, students receive about $700 while
attending Camp.

Leadership Lab periods, held weekly during
the academic year, and on one Saturday per
semester, focus on adventure-type training
(e.g., orienteering, rappelling, survival train-
ing, and basic marksmanship). These activities
are offered, subject to availability of equip-
ment and facilities, to provide an opportunity
to develop leadership, organizational abilities,
and confidence.

Professional development and enrichment
opportunities are also available through ROTC-
sponsored university organizations – the Per-
ishing Rifles and Kentucky Rangers.

Army ROTC incorporates the dimension of
leadership into the academic curriculum and
provides training and experience that can be
valuable in any profession.

For more information, contact the Profes-
sor of Military Science, ATTN: Admis-
sions Officer, U.S. Army ROTC, 101 Barker Hall,
University of Kentucky, Lexington, KY 40506-
0028; or call (859) 257-6864. Visit the Web
site at: www.uky.edu/armyrotc/.

MODERN AND CLASSICAL
LANGUAGES, 
LITERATURES AND 
CULTURES

The Department of Modern and Classical
Languages, Literature and Cultures is com-
prised of the Divisions of Classics, French
and Italian, German Studies, and Russian and
East

CLASSICS

The Division of Classics offers a Bachelor of
Arts and a Bachelor of Science degree in
Classics. The division teaches a broad range of
courses in the languages, literature, history,
art, and thought of the Greco-Roman world.

Bachelor of Arts with a major in
CLASSICS

120 hours (minimum)

Any student earning a Bachelor of Arts
(BA) degree must complete a minimum of 39
hours at the 300+ level. These hours are
generally completed by the major require-
ments. However, keep this hour requirement
in mind as you choose your course work for the
requirements in the major. See the complete
description of College requirements for a Bach-
elor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math ................................................................. 0-3
   II. Foreign Language (completed by Premajor
       Requirements) ............................................. 3-9
   III. Inference–Logic ......................................... 3-6
   IV. Written Communication ............................. 0-4
   V. Oral Communication .................................... 0
   VI. Natural Sciences ........................................ 6
   VII. Social Sciences .......................................... 6
   VIII. Humanities (completed by Major Requirements)
       IX. Cross-Cultural ......................................... 3
       X. Electives (choose two Natural Science courses) ... 6
       USP hours: .................................................. 27-37

Graduation Writing Requirement

After attaining sophomore status, students must complete
a Graduation Writing Requirement course. See “Univer-
sity Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: . 3

College Requirements

I. Foreign Language (completed by Major
   Requirements)
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective
      Requirement) ............................................... 3
   b. Social Science (partially completed by USP
      Cross-Cultural Requirement) ........................ 3
   c. Humanities (completed by Major Requirements)
   III. Laboratory or Field Work ............................ 1
   IV. Electives ..................................................... 6
   College Requirement hours: ......................... 10

Premajor Requirements

*CLA 101 and 102 Elementary Latin
or equivalent
OR
*CLA 151 and 152 Elementary Greek
or equivalent .................................................... 8
Premajor hours: ............................................. 8

Major Requirements

Courses Within Classics

Complete study of Latin to at least the level of CLA 202
or Greek to at least the level of CLA 252 or the equiva-
 lent. Complete 18 hours in courses at the 200 level or
above with a CLA prefix or cross-listed CLA. (CLA 201/
202 and CLA 251/252 contribute to this total.)

Classics Courses hours: ......................... 18

Courses Outside of Classics

Complete 15 hours in courses appropriate to the field
of study at the 200 level or above not prefixed CLA (courses
cross-listed CLA also fulfill this requirement). A wide
variety of courses are accepted; these are determined for each student in consultation with the Director of Undergraduate Studies.

Non-Classics Courses hours: .............. 15

Additional Courses (Elective)
Complete an additional 9 hours in courses at the 200 level or above either inside or outside Classics.

Additional Courses hours: ................. 9

Upper Level Requirement
At least 15 hours in the major must be in courses at the 300 level or above with either a CLA prefix, or with specific Classics content as determined by the Director of Undergraduate Studies. Of the 42 required major hours, at least 24 hours must be in courses at the 300 level or above.

Major hours: ......................................... 42

Explanation of Major Requirements
At the discretion of the student’s advisor, other courses may be substituted for the courses listed as courses within Classics. These courses must be either CLA courses or non-CLA courses that deal with the classical world. The acceptable non-CLA courses are normally in the areas of history, philosophy and art history. The Major requirements in Classics are fully satisfied if a student has:
1. Completed the Premajor Requirement.
2. Completed either CLA 202 (Intermediate Latin) or CLA 252 (Intermediate Greek).
3. Completed 15 hours in 300+ CLA and acceptable non-CLA courses.
4. Completed 15 hours in 200+ CLA courses outside the field of Classics that appropriately complement the Classics courses.
5. Completed 9 additional hours in 200+ courses in the area of either Classics or complementary disciplines.
6. Accumulated 24 hours in 300+ courses among the courses used to satisfy items 3, 4, and 5 above.

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation ........................................ 15

Total Minimum Hours Required for Degree ............ 120

*Course used towards completion of a USP or College Requirement.

Bachelor of Science with a major in CLASSICS

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a CLA prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math .............................................. 0-3
II. Foreign Language (completed by Premajor Requirement) .............................................. 3-6
III. Inference–Logic .................................. 3-6
IV. Written Communication ...................... 0-4
V. Oral Communication .................................. 3
VI. Natural Sciences .................................... 6
VII. Social Sciences ..................................... 6
VIII. Humanities (completed by Major Requirements) .................................................. 3
IX. Cross-Cultural ..................................... 3
X. Electives (choose two Natural Science courses) ... 6

USP hours: ............................................. 27-37

Graduation Writing Requirement
After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .. 3

College Requirements
I. Foreign Language (completed by Major Requirements)
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement)
   b. Social Science (completed by USP Cross-Cultural Requirement)
   c. Humanities (completed by Major Requirements)
   d. Laboratory or Field Work .................. 1
   e. Electives ............................................. 6

College Requirement hours: ..................... 7

Premajor Requirements
*CLA 101 and 102 Elementary Latin or equivalent
OR
*CLA 151 and 152 Elementary Greek or equivalent .................................................. 8

Premajor hours: ..................................... 8

Major Requirements
Courses Within Classics
Complete study of Latin to at least the level of CLA 202 or Greek to at least the level of CLA 252 or the equivalent. Complete 18 hours in courses at the 200 level or above with a CLA prefix or cross-listed CLA. (CLA 201/202 and CLA 251/252 contribute to this total.)

Classics Courses hours: ......................... 18

Courses Outside of Classics
Complete 15 hours in courses appropriate to the field of study at the 200 level or above with non-CLA courses. (CLA courses cross-listed CLA also fulfill this requirement). A wide variety of courses are accepted; these are determined for each student in consultation with the Director of Undergraduate Studies.

Non-Classics Courses hours: ..................... 15

Additional Courses (Elective)
Complete an additional 9 hours in courses at the 200 level or above either inside or outside Classics.

Additional Courses hours: ..................... 9

Upper Level Requirement
At least 15 hours in the major must be in courses at the 300 level or above with either a CLA prefix, or with specific Classics content as determined by the Director of Undergraduate Studies. Of the 42 required major hours, at least 24 hours must be in courses at the 300 level or above.

Major hours: ......................................... 42

Explanation of Major Requirements
At the discretion of the student’s advisor, other courses may be substituted for the courses listed as courses within Classics. These courses must be either CLA courses or non-CLA courses that deal with the classical world. The acceptable non-CLA courses are normally in the areas of history, philosophy and art history. The Major requirements in Classics are fully satisfied if a student has:
1. Completed the Premajor Requirement.
2. Completed either CLA 202 (Intermediate Latin) or CLA 252 (Intermediate Greek).
3. Completed 15 hours in 300+ CLA and acceptable non-CLA courses.
4. Completed 15 hours in 200+ courses outside the field of Classics.
5. Completed 9 additional hours in 200+ courses in the area of either Classics or complementary disciplines.
6. Accumulated 24 hours in 300+ courses among the courses used to satisfy items 3, 4, and 5 above.

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation ........................................ 18

Total Minimum Hours Required for Degree ............ 120

*Course used towards completion of a USP or College Requirement.

Teacher Certification Requirements
Students who wish to teach Latin in secondary school must also meet the certification requirements outlined in the College of Education section of this Bulletin.

Minor Requirements
The requirements for a classics minor are 18 credit hours, at least six of which must be at the 300 level or above, earned from among the following courses:

1. Greek and Latin courses at any level.
2. Non-language courses taught by the division that are numbered 200 or higher.

All courses may be chosen from category 1, all from category 2, or the two categories may be combined in any manner, as long as students earn the requisite 18 credit hours.

FRENCH AND ITALIAN

As a branch of the liberal arts curriculum, the Division of French and Italian has as one of its fundamental aims to broaden and deepen the student’s acquaintance with the French- and Italian-speaking worlds through the medium of their language and literature.

Bachelor of Arts with a major in FRENCH

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math .............................................. 0-3
II. Foreign Language (completed by Premajor Requirement) .............................................. 3-6
III. Inference–Logic .................................. 3-6
IV. Written Communication ...................... 0-4
V. Oral Communication .................................. 3
VI. Natural Sciences .................................... 6
VII. Social Sciences ..................................... 6
VIII. Humanities (choose a 300+ level Social Science course) ... 3
X. Electives (choose two USP courses) .... 6

USP hours: ............................................. 33-43
Bachelor of Science with a major in FRENCH

120 hours (minimum)
Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an FR prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

College of Arts and Sciences
description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math ...................................................................... 0-3
II. Foreign Language (completed by Premajor Requirement) ................................. 
III. Inference–Logic .................................................. 3-6
IV. Written Communication ...................................... 0-4
V. Oral Communication (completed by Premajor and Major Requirements) .......... 
VI. Natural Sciences .................................................. 6
VII. Social Sciences .................................................... 6
VIII. Humanities .......................................................... 6
IX. Cross-Cultural (choose a 300+ level Social Sciences course) ......................... 3
X. Electives (choose two Natural Science courses) ......... 6

USP hours: ....................................................... 30-40

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .......................... 3

College Requirements

I. Foreign Language (completed by Premajor Requirement) ................................. 
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) ......................... 
   b. Social Science (partially completed by USP Cross-Cultural Requirement) ......... 3
   c. Humanities (completed by Major Requirements) ...................................... 
III. Laboratory or Field Work ......................................... 1
IV. Electives .................................................................. 6

College Requirement hours: ......................................... 10

Premajor Requirements

*GER 202 Intermediate German ............................................. 3
GER 205 Reading and Writing Practice .................................... 2
*GER 206 Oral Practice ..................................................... 2

Premajor hours: .......................................................... 7

Major Requirements

Major Core Requirements

*GER 307 Intermediate German Composition and Conversation I ......................... 3
GER 308 Intermediate German Composition and Conversation II .......................... 
*GER 206 + GER 307 satisfy the Oral Communication Requirement.

Bachelor of Science with a major in GERMAN

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a GER prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math ...................................................................... 0-3
II. Foreign Language (completed by Premajor Requirement) ................................. 
III. Inference–Logic .................................................. 3-6
IV. Written Communication ...................................... 0-4
V. Oral Communication (completed by Premajor and Major Requirements) .......... 
VI. Natural Sciences .................................................. 6
VII. Social Sciences .................................................... 6
VIII. Humanities .......................................................... 6
IX. Cross-Cultural (choose a Social Science course) ......................................... 3
X. Electives (choose two Social Science courses) ........................................... 6

USP hours: ....................................................... 30-40

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .......................... 3

College Requirements

I. Foreign Language (completed by Premajor Requirement) ................................. 
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) ......................... 
   b. Social Science (completed by USP Cross-Cultural Requirement) ................. 
   c. Humanities (completed by Major Requirements) ...................................... 
III. Laboratory or Field Work ......................................... 1
IV. Electives .................................................................. 6

College Requirement hours: ......................................... 12

Other Course Work Required for the Major

From the Major Department: ............................................. 12-15
Choose 12-15 hours of German courses to be selected from GER 310, 315, 317, 319, 352, 361, 415G, 416G, 420G and 507; upon consultation with the advisor, certain 500-level courses may be substituted for two of these; GER 415G, 416G and 420G may be repeated once.

From Outside the Major Department

Choose 15-18 hours outside German at the 300+ level from the following areas: anthropology, art history, comparative literature, economics, English, French, Greek, geography, history, Italian, Japanese, Latin, linguistics, music, philosophy, political science, religious studies, Russian, sociology, Spanish, theatre, and women’s studies. 200+ level courses used to satisfy USP and College requirements can also be counted here ............... 15-18

Other Major hours: ....................................................... 30

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation ........................................ 19

Total Minimum Hours Required for Degree ........................................ 120

*Course used towards completion of a USP Requirement.
*GER 206 + GER 307 satisfy the Oral Communication Requirement.

Minor in German

The minor in German Studies consists of a minimum of 19 hours in German language, culture, and literature courses in addition to the proficiency level gained by completion of GER 202. This level may be documented either by completing the relevant sequence of courses or by placement exam.

Required courses include:

GER 205 Reading and Writing Practice .................................... 2
GER 206 Oral Practice ..................................................... 2

and

Course work at the 300 level or above, including GER 307/308 ........................................ 15

RUSSIAN AND EASTERN STUDIES

The Division of Russian and Eastern Studies offers language courses in Arabic, Chinese, Hebrew, Japanese and Russian, as well as related literature and culture courses.

Russian and Eastern Studies

The Division of Russian and Eastern Studies offers an undergraduate major in Russian Studies. The program is designed to produce an integrated knowledge of Russian language, literature, culture, history, politics, and society. This interdisciplinary major provides the
**Bachelor of Arts with a major in RUSSIAN STUDIES**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

**University Studies Program Requirements**

I. Math ................................................................. 0-3
II. Foreign Language (completed by Premajor Requirement) ................................. 3
III. Inference–Logic .................................................. 3-6
IV. Written Communication ........................................ 0-4
V. Oral Communication* (partially completed by Major Requirement) .................. 1
VI. Natural Sciences .................................................. 6
VII. Social Sciences ................................................... 6
VIII. Humanities (completed by Major Requirements) ........................................... 6
IX. Cross-Cultural (completed by Premajor Requirement) .................................... 3
X. Electives (choose two Natural Science courses) .............................................. 6

**USP hours:** ...................................................... 25-35

**Graduation Writing Requirement**

RUS 499, required in the Major Core Requirements, satisfies the Graduation Writing Requirement.

**Graduation Writing Requirement Hours:** ................................................. 3

**College Requirements**

I. Foreign Language (completed by Premajor Requirement) .................................... 3
II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement) ................................ 3
   b. Social Science (partially completed by Major Requirement) ............................... 3
   c. Humanities (completed by Major Requirements) ............................................. 3
   III. Laboratory or Field Work ............................................................................. 1
   IV. Electives ....................................................................................................... 6

**College Requirement hours:** ................................................................. 10

**Premajor Requirements**

* RUS 202 Intermediate Russian ............................................................. 4
* RUS 270 Russian Culture 900-1900 or RUS 271 Russian Culture 1900-Present .... 3

**Premajor hours:** ................................................................................... 7

**Major Requirements**

Major Core Requirements

* HIS 385 History of Russia to 1825 ................................................................. 3
* HIS 386 History of Russia Since 1825 ......................................................... 3
* RUS 380 Nineteenth Century Russian Literature (in English) ......................... 3
* RUS 381 Russian Literature 1900-Present (in English) ................................. 3
* RUS 301 Advanced Intermediate Russian I .................................................. 3
* RUS 302 Advanced Intermediate Russian II ................................................ 3
* RUS 403 Advanced Russian I ....................................................................... 3
* RUS 404 Advanced Russian II .................................................................... 3
* RUS 499 Russian Studies Capstone Seminar (Subtitle required) .................... 3

**Major Core hours:** ................................................................................. 27

Other Course Work Required for the Major From the Major Department:

Language Elective ................................................................. 3
Choose from RUS 501, RUS 502, RUS 520, or RUS 530

Related Elective ................................................................. 3
Choose from RUS 370, RUS 375, RUS 395, RUS 400G, RUS 460G, RUS 463, or RUS 495G

From Outside the Major Department ................................................. 9
Choose 9 hours at the 300+ level related to Russian Area Studies, but not from the major department. Three of these hours must be chosen from one of the following courses: ECO 465G, GEO 329, PS 391, or PS 429G

**Other Major hours:** ............................................................................. 15

**Total Minimum Hours Required for Degree** ............................................. 120

*Course used towards completion of a USP Requirement.

**Bachelor of Science with a major in RUSSIAN STUDIES**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with RUS and HIS prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

**University Studies Program Requirements**

I. Math ........................................................................... 0-3
II. Foreign Language (completed by Premajor Requirement) ............................. 3
III. Inference–Logic .......................................................... 3-6
IV. Written Communication ....................................................... 0-4
V. Oral Communication* (partially completed by Major Requirement) ............. 1
VI. Natural Sciences ............................................................ 6
VII. Social Sciences ............................................................ 6
VIII. Humanities (completed by Major Requirements) ....................................... 6
IX. Cross-Cultural (completed by Premajor Requirement) ................................ 3
X. Electives (choose two Natural Science courses) ........................................... 6

**USP hours:** ................................................................. 25-35

**Graduation Writing Requirement**

RUS 499, required in the Major Core Requirements, satisfies the Graduation Writing Requirement.

**Graduation Writing Requirement Hours:** .................................................... 3

**Other Course Work Required for the Major From the Major Department:**

Language Elective ................................................................. 3
Choose from RUS 501, RUS 502, RUS 520, or RUS 530

Related Elective ................................................................. 3
Choose from RUS 370, RUS 375, RUS 395, RUS 400G, RUS 460G, RUS 463, or RUS 495G

From Outside the Major Department ......................................................... 9
Choose 9 hours at the 300+ level related to Russian Area Studies, but not from the major department. Three of these hours must be chosen from one of the following courses: ECO 465G, GEO 329, PS 391, or PS 429G

**Other Major hours:** ............................................................................. 15

**Total Minimum Hours Required for Degree** ............................................. 120

*Course used towards completion of a USP Requirement.

**Minor in Russian**

The minor in Russian consists of a minimum of 18 hours beyond second-year proficiency in Russian language (RUS 202) distributed as follows:

1. 6 hours of Russian language courses at the 300 level or above
2. 12 hours of additional course work in designated Russian area studies courses, of which at least 9 hours must be in RUS courses.

Note: RUS 395, Independent Work in Russian, may not be used for the minor.

**Minor in Folklore and Mythology**

The minor in folklore and mythology requires a minimum of 18 hours (plus 6 preminor) to include the following:

1. Minor Prerequisites
   a. CLA 100 Ancient Stories in Modern Films or
   b. CLA 135 Greek and Roman Mythology .................................................... 3
   c. GER 103 Fairy Tales in European Context .............................................. 3

College of Arts and Sciences 133

broadest possible base for further study of the former Soviet Union.
2. Minor Requirements
   CLA 331 Gender and Sexuality in Antiquity
   or
   CLA 382 Greek and Roman Religion .......................... 3
   FR 263 African and Caribbean Literature and Culture of French Expression in Translation
   (Substitute required) .................................................. 3
   GER 363 Germanic Mythology .................................. 3
   MCL 270 Introduction to Folklore
   and Mythology ........................................................... 3
   RUS 370 Russian Folklore (in English) ....................... 3

3. Minor Electives
   Three hours in elective courses in a variety of disciplines
taken from a list provided by the advisor.

Students in this minor must satisfy the current A&S Lan-
guage Requirement, regardless of their college. The minor is not restricted to A&S majors.

PHILOSOPHY

Philosophy encourages critical and systemic inquiry into fundamental questions of right and wrong, truth and falsehood, the meaning of life, and the nature of reality, knowledge, and society. More than any other discipline, philosophy explores the core issues of the Western intellectual tradition. With its emphasis on reason and argumentation, a philosophy major is an excellent preparation for a career in law or business.

Bachelor of Arts with a major in PHILOSOPHY

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major require-
ments. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bache-
lor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math ................................................................. 0-3
II. Foreign Language (placement exam recommended)* .............................................. 0-8
III. Inference–Logic (partially completed by Major Requirement) ........................................ 3
IV. Written Communication .................................................. 0-4
V. Oral Communication .......................................................... 3
VI. Natural Sciences ........................................................... 6
VII. Social Sciences ............................................................ 6
VIII. Humanities (completed by Premajor Requirements)
IX. Cross-Cultural (choose a 300+ level Social Science course) .......................................... 3
X. Electives (choose two Natural Science courses) ....... 6

USP hours: ........................................................................... 27-42

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “Univer-
sity Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: .. 3

College Requirements

I. Foreign Language (placement exam recommended)* .............................................. 0-6

II. Disciplinary Requirements
   a. Natural Science (completed by USP Elective Requirement)
   b. Social Science (partially completed by USP Cross-Cultural Requirement)
   c. Humanities (completed by Major Requirements)
   III. Laboratory or Field Work .................................................. 1
   IV. Electives ........................................................................... 6

College Requirement hours: ........................................ 10-16

Premajor Requirements

*PHI 260 History of Philosophy I:
   from Greek Beginnings to the Middle Ages ............. 3
*PHI 270 History of Philosophy II:
   from the Renaissance to the Present Era .................. 3

Premajor hours: ................................................................. 6

Major Requirements

Major Core Requirements
   *PHI 320 Symbolic Logic I .................................................. 3
   PHI 331 Ethics
   or
   PHI 335 The Individual and Society ................................. 3
   PHI 351 Metaphysics and Epistemology .......................... 3

   Major Core hours: ............................................................ 9

Other Course Work Required for the Major

From the Major Department:
   Choose 15 hours of PHI 500+ level courses with at least
   one course from each group below .................................. 15
   Group A: PHI 503, 504, 506, 509, 513, 514, 515, 516, 517
   Group B: PHI 519, 530, 531, 535, 537, 540, 545, 592
   Group C: PHI 520, 550, 560, 561, 562, 565, 570, 575

Choose 3 hours from any of the group courses listed above
   or the following: PHI 305, 310, 317, 330, 331, 332, 335, 337, 340, 343, 361, 380, 395 ...................... 3
   From Outside the Major Department
   Choose 18 hours at the 200+ level; up to 4 hours may
   come from Philosophy courses ........................................ 18
   Other Major hours: ........................................................... 36

Electives

Choose electives to lead to the minimum total of 120
   hours required for graduation ........................................ 9

Total Minimum Hours

Required for Degree ........................................ 120

*Course used towards completion of a USP Requirement.

*French or German is highly recommended to complete
   the USP and College foreign language requirements. Greek
   is recommended if the student plans to concentrate on
   ancient philosophy. Latin is recommended if the student
   plans to concentrate on medieval philosophy.

Bachelor of Science with a major in PHILOSOPHY

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60
   hours in natural, physical, mathematical, and computer science. Please note: courses with a
   PHI prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore,
   be sure to keep this requirement in mind as you choose your course work for the requirements
   in the major. See the complete description of College requirements for a Bachelor of Science
   degree, including a specific listing of courses applicable to the 60-hour requirement, on
   pages 103-104.

University Studies Program Requirements

I. Math ................................................................. 0-3
II. Foreign Language (placement exam recommended)* .............................................. 0-8
III. Inference–Logic (partially completed by Major Requirement) ........................................ 3
IV. Written Communication .................................................. 0-4
V. Oral Communication .......................................................... 3
VI. Natural Sciences ............................................................ 6
VII. Social Sciences ............................................................ 6
VIII. Humanities (completed by Premajor Requirements)
IX. Cross-Cultural (choose a Social Science course) .................................................. 3
X. Electives (choose two Natural Science courses) ....... 6

College Requirement hours: ........................................ 27-42

Premajor Requirements

*PHI 260 History of Philosophy I:
   from Greek Beginnings to the Middle Ages ............. 3
*PHI 270 History of Philosophy II:
   from the Renaissance to the Present Era .................. 3

Premajor hours: ................................................................. 6

Major Requirements

Major Core Requirements
   *PHI 320 Symbolic Logic I .................................................. 3
   PHI 331 Ethics
   or
   PHI 335 The Individual and Society ................................. 3
   PHI 351 Metaphysics and Epistemology .......................... 3

   Major Core hours: ............................................................ 9

Other Course Work Required for the Major

From the Major Department:
   Choose 15 hours of PHI 500+ level courses with at least
   one course from each group below .................................. 15
   Group A: PHI 503, 504, 506, 509, 513, 514, 515, 516, 517
   Group B: PHI 519, 530, 531, 535, 537, 540, 545, 592
   Group C: PHI 520, 550, 560, 561, 562, 565, 570, 575

Choose 3 hours from any of the group courses listed above
   or the following: PHI 305, 310, 317, 330, 331, 332, 335, 337, 340, 343, 361, 380, 395 ...................... 3
   From Outside the Major Department
   Choose 18 hours at the 200+ level; up to 4 hours may
   come from Philosophy courses ........................................ 18
   Other Major hours: ........................................................... 36

Electives

Choose electives to lead to the minimum total of 120
   hours required for graduation ........................................ 9

Total Minimum Hours

Required for Degree ........................................ 120
Minor in Philosophy
The minor in philosophy requires a minimum of 18 hours of course work to include the following:

- No more than 200-level courses
- At least one course in logic (PHI 120, PHI 320, or PHI 520)
- At least one course in the history of philosophy (PHI 260, PHI 270, or any course from Group A of the undergraduate curriculum)
- At least three courses (nine hours) at the 300 level or above, excluding PHI 320 and PHI 399.

PHYSICS AND ASTRONOMY
The Department of Physics and Astronomy helps many students acquire a general understanding and appreciation of physics and astronomy. In the liberal arts tradition, the undergraduate curriculum is complete and flexible enough to allow a graduate with a major in physics to pursue a variety of careers. Many of our graduates continue their studies with graduate work in physics or other areas.

For the student interested in combining the study of physics with studies in other areas, the department can assist in planning the minimum requirements of the Physics program and the student’s needs and interests. Such planning is of particular value to students intending to pursue careers in engineering, computer science, applied physics, medicine, radiation medicine, biophysics, law, meteorology, oceanography, geophysics, environmental sciences, management, or the teaching of physics and/or physical science at the junior and senior high school levels. By working closely with an advisor, the student with special interests can take advantage of opportunities to take several other courses from one or more departments outside physics, or double major in physics and another area. For a description of suggested curricula, visit our Web site at: www.pa.uky.edu/undergrad/curricula.html.

Bachelor of Arts with a major in PHYSICS

121 hours (minimum)
Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for the Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math (completed by Premajor Requirement) .......................................................... 0-8
II. Foreign Language (placement exam recommended) ........................................... 0-8
III. Inference–Logic (completed by Premajor Requirement) ................................... 0-4
IV. Written Communication ................................................................................. 0-4
V. Natural Sciences (completed by Premajor Requirement) ............................... 0-8
VII. Social Sciences ......................................................................................... 6
VIII. Humanities .......................................................................................... 6
IX. Cross-Cultural (choose a 300+ level course) .................................................... 3
X. Electives (choose 300+ level courses) ............................................................. 6

USP hours: .................................................................................. 24-36

Graduation Writing Requirement
Students may satisfy the Graduation Writing Requirement by completing PHY 435.

Graduation Writing Requirement Hours: ........................................... 3

College Requirements

I. Foreign Language (placement exam recommended) ........................................... 0-8
II. Disciplinary Requirements
   a. Natural Science (completed by Premajor Requirements) ................................ 0-8
   b. Social Science (completed by USP Elective Requirement) ............................ 0-4
   c. Humanities (completed by USP Cross-Cultural Requirement) .................... 0-8
III. Laboratory or Field Work (completed by Premajor Requirement) .................. 3
IV. Electives ......................................................................................... 6

College Requirement hours: .............................................................. 9-17

Premajor Requirements

*PHY 231/232/241/242 General University Physics and Laboratory ........................... 10 or with permission of the Director of Undergraduate Studies:
PHY 231/232/241 General University Physics .................................................. (10)
PHY 228 Optics, Relativity and Thermal Physics ............................................. 3
CHE 105 General College Chemistry ............................................................. 1
CHE 107 General College Chemistry II .......................................................... 1
*MA 113 Calculus I ..................................................................................... 4
MA 114 Calculus II ..................................................................................... 4

Premajor hours: ................................................................................. 27

Major Requirements

Major Core Requirements

PHY 306 Theoretical Methods of Physics ..................................................... 3
PHY 361 Principles of Modern Physics ....................................................... 3
PHY 404G Mechanics ............................................................................. 3
PHY 416G Electricity and Magnetism ......................................................... 3
PHY 520 Introduction to Quantum Mechanics ........................................... 3
MA 213 Calculus III .................................................................................... 4
MA 214 Calculus IV .................................................................................... 4

Major Core hours: ................................................................................... 22

Other Course Work Required for the Major

From the Major Department:
Choose 3-6 hours at the 400+ level to include at least one of the following laboratory courses: PHY 402G, 422, 435, 535, 545 ......................................................................... 3-6

From Outside the Major Department
Choose 14-17 hours outside Physics at the 300+ level. Courses are generally chosen from computer science, engineering, mathematics, philosophy, or statistics. 200+ level courses used to satisfy USP and College requirements can also be counted here .................................................. 14-17

Other Major hours: ............................................................................... 20

Total Minimum Hours Required for Degree .................................. 121

*Course used towards completion of a USP Requirement

**The Bachelor of Arts requires the completion of six
additional hours in humanities and social sciences beyond those required for University Studies. It also requires the completion of 39 hours at or above the 300 level.

### Bachelor of Science with a major in Physics

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

### University Studies Program Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Math (completed by Premajor Requirement)</td>
<td>0-8</td>
</tr>
<tr>
<td>II. Foreign Language (placement exam recommended)</td>
<td>0-8</td>
</tr>
<tr>
<td>III. Inference–Logic (completed by Premajor Requirement)</td>
<td>0-8</td>
</tr>
<tr>
<td>IV. Written Communication</td>
<td>0-4</td>
</tr>
<tr>
<td>VI. Natural Sciences (completed by Premajor Requirement)</td>
<td>0-4</td>
</tr>
<tr>
<td>VII. Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td>VIII. Humanities</td>
<td>6</td>
</tr>
<tr>
<td>IX. Cross-Cultural (choose a Social Science course)</td>
<td>3</td>
</tr>
<tr>
<td>X. Electives (choose a Humanities course)</td>
<td>3</td>
</tr>
<tr>
<td>USP hours:</td>
<td>21-33</td>
</tr>
</tbody>
</table>

### Graduation Writing Requirement

Students may satisfy the Graduation Writing Requirement by completing PH 435.

### Graduation Writing Requirement Hours: 3

### College Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Foreign Language (placement exam recommended)</td>
<td>0-8</td>
</tr>
<tr>
<td>II. Disciplinary Requirements</td>
<td></td>
</tr>
<tr>
<td>a. Natural Science (completed by Premajor Requirement)</td>
<td></td>
</tr>
<tr>
<td>b. Social Science (completed by USP Cross-Cultural Requirement)</td>
<td></td>
</tr>
<tr>
<td>c. Humanities (completed by USP Elective Requirement)</td>
<td></td>
</tr>
<tr>
<td>III. Laboratory or Field Work (completed by Premajor Requirement)</td>
<td></td>
</tr>
<tr>
<td>IV. Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

### College Requirement hours: 6-14

### Premajor Requirements

*PHY 231/232/241/242 General University Physics and Laboratory ........................................ 10 or with permission of the Director of Undergraduate Studies: PHY 211/213 General Physics .................. (10) PHY 228 Optics, Relativity and Thermal Physics .................. 3 CHE 105 General College Chemistry I .................. 3 CHE 107 General College Chemistry II ............. 3 *MA 113 Calculus I ......................................... 4 MA 114 Calculus II ......................................... 4

### Premajor hours: 27

### Major Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Core Requirements</td>
<td></td>
</tr>
<tr>
<td>PHY 306 Theoretical Methods of Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 335 Data Analysis for Physicists</td>
<td>3</td>
</tr>
<tr>
<td>PHY 361 Principles of Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 404G Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 416G/417G Electricity and Magnetism</td>
<td>6</td>
</tr>
<tr>
<td>PHY 520 Introduction to Quantum Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>
| PHY 535(2) Experimental Physics: Advanced Physics Laboratory ........................................ 2 MA 213 Calculus III .................................... 4 MA 214 Calculus IV .................................... 3

### Major Core hours: 28

### Other Course Work Required for the Major

From the Major Department:

Choose one of the following: PHY 522, 524, 555, 556, 591, 592 .......................... 3

Choose two lab courses from the following: AST/PHY 395, PHY 402G, 422, 555(1) .............. 3-6

From Outside the Major Department

Choose seven hours outside Physics at the 200+ level. Courses are generally chosen from computer science, engineering, mathematics, or statistics. 200+ level courses used to satisfy USP and College requirements can also be counted here .................................................. 7

### Other Major hours: 13-16

### Total Minimum Hours Required for Degree 120

*Course used towards completion of a USP Requirement.

### Suggested Curriculum for B.S. in Physics

(Students who have completed calculus or chemistry should visit our Web site at: www.pac.ky.edu/undergrad/curricula.html for suggested curriculum.)

As you plan your physics studies, please note that upper division physics courses, PHY 3XX and all higher numbered courses, are offered once per year in the semester indicated on the suggested curricula. For example, PHY 306 and PHY 361 are offered in the spring semester only. This suggested curriculum minimally meets the requirements for the B.S. in Physics.

### Freshman Year

#### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 231 General University Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 241 General University Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>ENG 104 Writing: An Accelerated Foundational Course</td>
<td>4</td>
</tr>
<tr>
<td>University Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 228 Optics, Relativity and Thermal Physics</td>
<td>3</td>
</tr>
<tr>
<td>MA 114 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>University Studies</td>
<td>6</td>
</tr>
</tbody>
</table>

### Sophomore Year

#### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 232 General University Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 242 General University Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MA 213 Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>PHY 335 Data Analysis for Physicists</td>
<td>3</td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 306 Theoretical Methods of Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 361 Principles of Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>MA 214 Calculus IV</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>4</td>
</tr>
</tbody>
</table>

### Junior Year

#### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 404G Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 416G Electricity and Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>PHY 402G Electronic Instrumentation and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>*MA 322 Matrix Algebra and Its Applications</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3</td>
</tr>
</tbody>
</table>

### Senior Year

#### First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 554 Fundamentals of Atomic Physics</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>University Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 535 Experimental Physics: Advanced Physics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Humanities and Social Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>University Studies (if needed)</td>
<td>3</td>
</tr>
</tbody>
</table>

*A total of 14 credit hours in math, computer science, chemistry, engineering or other areas related to physics but outside the department must be completed to satisfy the college requirement. One-hundred-level freshman courses may not be counted for the major requirements except for CS 115 which may be counted.

### Minor in Physics

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 113, 114, and 213; or equivalent</td>
<td>12</td>
</tr>
<tr>
<td>PHY 211/213 or PHY 231/232/241/242</td>
<td>10</td>
</tr>
<tr>
<td>PHY 361 ...........................................</td>
<td>3</td>
</tr>
</tbody>
</table>

At least eight credits chosen from the following:


### Astronomy Concentration

For students with an interest in astronomy, the Department offers the B.S. degree in physics with a concentration in astronomy. Among the major requirements, AST/PHY 591 Astrophysics I – Stars and AST/PHY 592, Astrophysics II – Galaxies and Interstellar Material are strongly recommended as courses within the area of concentration. AST 395, Independent Work in Astronomy, may be substituted for one of the laboratory courses of Requirement Three, subject to the work being done in astronomy and astrophysics. Students are encouraged, though not required, to enroll in AST 191, The Solar System, and AST 192, Stars, Galaxies and the Universe.

### Political Science

The undergraduate program in Political Science allows students to pursue coursework in four disciplinary fields:

* American Politics – study of the institutions, behavioral patterns, and public policies that define the American political system;
* Comparative Politics – study of the institutions, policies, and mass behaviors observed in political systems outside the United States, usually explored through comparison within or across regions of the world;
* International Relations – study of the international system as a whole, as well as of the actors (such as nation-states, corporations, and international organizations) who participate in shaping diplomatic, military, and economic outcomes within that system;
College of Arts and Sciences

Bachelor of Arts with a major in Political Science

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math ............................................................... 0-3
II. Foreign Language (placement exam recommended) ........................................... 0-8
III. Inference–Logic .............................................. 3-6
IV. Written Communication .................................................. 0-4
V. Natural Sciences .................................................. 6
VI. Social Sciences (partially completed by Premajor Requirement) ....................... 3
VII. Humanities ..................................................... 6
IX. Cross-Cultural (may be completed by Major Requirements) .........................
X. Electives (choose two Natural Science courses) .................................................. 6

Total Minimum Hours Required for Degree ........................................... 120

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: ................. 3

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation.

Field One – American Politics

General American Politics Courses

Courses on American Law and Courts

Field Two – Comparative Politics


Field Three – International Relations


Field Four – Theory/Methodology

PS 240 or 372, 441G, 442G, 545, 572

Major/Core Requirements

After being introduced to each undergraduate field, Political Science majors must take an additional 39 hours of coursework that combines both (1) courses within the discipline and (2) courses covering topics related to the discipline but offered by other programs. These 39 hours, of which 24 must be at the 300+ level, are divided as follows.

Disciplinary Courses

Students must take 18 additional credit hours of political science course work, of which at least 15 hours must be at the 300+ level. Note that PS 399 may not be counted toward this requirement. Eligible courses span all four undergraduate fields:

Field One – American Politics

General American Politics Courses

Courses on American Law and Courts

Field Two – Comparative Politics


Field Three – International Relations


Field Four – Theory/Methodology

PS 240 or 372, 441G, 442G, 545, 572

Note: PS 391, 395, 490, and 492 also meet this disciplinary requirement, although the fields will vary depending on the topic.

Other Courses

Choose six hours of PS courses (including 1-6 hours of PS 399) or approved courses from outside political science (see list below) .................................................. 6

From Outside the Major Department

Choose 15 hours outside political science from the list below. You must take at least 6 hours from one department and 6 hours from another department. Special topics courses and other offerings related to the concentration may be substituted, subject to the approval of the Director of Undergraduate Studies ........................................ 15

Electives

Choose electives to meet the minimum total of 120 hours required for graduation.

Total Minimum Hours

Required for Degree ........................................... 120

Bachelor of Science with a major in Political Science

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a PS prefix are not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math ............................................................... 0-3
II. Foreign Language (placement exam recommended) ........................................... 0-8
III. Inference–Logic .............................................. 3-6
IV. Written Communication .................................................. 0-4
VI. Natural Sciences .................................................. 6
VII. Social Sciences (partially completed by Premajor Requirement) ....................... 3
VIII. Humanities ..................................................... 6
Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Graduation Writing Requirement Hours: \( \leq 3 \)

College Requirements

I. Disciplinary Requirements

a. Natural Science (completed by USP Elective requirement) \( \leq 8 \)

b. Social Science (completed by Premajor Requirement) \( \leq 6 \)

c. Humanities (completed by USP Elective requirement) \( \leq 3 \)

II. Laboratory or Field Work (completed by PS 372)

IV. Electives \( \geq 6-14 \)

Premajor/Introductory Requirements

Field One – American Politics

PS 101 American Government \( \leq 3 \)

Field Two – Comparative Politics

PS 210 Introduction to Comparative Politics \( \leq 3 \)

or

PS 212 Culture and Politics in the Third World \( \leq 3 \)

Field Three – International Relations

PS 235 World Politics \( \leq 3 \)

Field Four – Theory/Methodology

or

PS 240 Introduction to Political Theory \( \leq 3 \)

or

PS 372 Introduction to Political Analysis \( \leq 3 \)

Premajor/Intro hours: \( \leq 12 \)

Major/Core Requirements

After being introduced to each undergraduate field, Political Science majors must take an additional 39 hours of course work that combines both (1) courses within the discipline and (2) courses covering topics related to the discipline but offered by other programs. These 39 hours, of which 24 must be at the 300+ level, are divided as follows.

Disciplinary Courses

Students must take 18 additional credit hours of political science course work, of which at least 15 hours must be at the 300+ level. Note that PS 399 may not be counted toward this requirement. Eligible courses span all four undergraduate fields.

Field One – American Politics

General American Politics Courses


Courses on American Law and Courts


Field Two – Comparative Politics


Field Three – International Relations


Field Four – Theory/Methodology

PS 240 or 372, 414G, 424G, 545, 572

Note: PS 391, 395, 490, and 492 also meet this disciplinary requirement, although the fields will vary depending on the topic.

Other Courses

Choose six hours of PS courses (including 1-6 hours of PS 399) or approved courses from outside political science (see list below) \( \geq 6 \)

From Outside the Major Department

Choose 15 hours outside political science from the list below. You must take at least 6 hours from one department and 6 hours from another department. Special topics courses and other offerings related to the concentration may be substituted, subject to the approval of the Director of Undergraduate Studies \( \geq 15 \)

AAS 200, 420 (also acceptable are AAS courses cross-listed with courses eligible to serve as Major Requirements)

ACC 407

AEC 324, 471, 479, 510, 532

AIS 328, 330

ANT = 220, 221, 323, 324, 327, 340, 375, 401, 431G, 433, 435, 532, 534

APP 200

BSC = all 200+ level courses

COM 249, 449, 453

DIS 300

ECO = all 200+ level courses

EDC 326, 346

EDL 401

ENG 204

EPE = all 200+ level courses

FAM 509, 544, 563

FIN 423

FR 350, 350

GEO = 222, 240, 260, all 300+ level courses

GER 264, 317, 319

GWS 200, 350, 416

HIS = all 200+ level courses

HJS 324, 325

HON = all 200+ level courses (except independent work)

HSM 354

JOU 204, 531, 535

JPN 320, 321, 334, 451G, 461G

LAS 201

MG 540, 341

MKT 310, 340, 450

NRC = all 200+ level courses

PHI = all 200+ level courses

PSY = all 200+ level courses

RUS 270, 271

SOC = all 200+ level courses

SPA 312, 314

ST 500

STA = all 200+ level courses

SW 222, 320, 420, 430, 505, 523, 571

TEL 310, 319, 453, 510, 520

Major/Core hours: \( \geq 39 \)

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation.

Total Minimum Hours Required for Degree \( \geq 120 \)

Minor in Political Science

The minor in political science requires a prerequisite course (PS 101) and 18 hours of course work at the 200 level or above to be distributed as follows:

1. Six hours of 200 level courses, three hours of which must be either PS 210, PS 212, or PS 235.

2. Four other courses, at least three of which must be at the 400 or 500 level.

Other Courses

Choose six hours of PS courses (including 1-6 hours of PS 399) or approved courses from outside political science (see list below) \( \geq 6 \)

From Outside the Major Department

Choose 15 hours outside political science from the list below. You must take at least 6 hours from one department and 6 hours from another department. Special topics courses and other offerings related to the concentration may be substituted, subject to the approval of the Director of Undergraduate Studies \( \geq 15 \)

AAS 200, 420 (also acceptable are AAS courses cross-listed with courses eligible to serve as Major Requirements)

ACC 407

AEC 324, 471, 479, 510, 532

AIS 328, 330

ANT = 220, 221, 323, 324, 327, 340, 375, 401, 431G, 433, 435, 532, 534

APP 200

BSC = all 200+ level courses

COM 249, 449, 453

DIS 300

ECO = all 200+ level courses

EDC 326, 346

EDL 401

ENG 204

EPE = all 200+ level courses

FAM 509, 544, 563

FIN 423

FR 350, 350

GEO = 222, 240, 260, all 300+ level courses

GER 264, 317, 319

GWS 200, 350, 416

HIS = all 200+ level courses

HJS 324, 325

HON = all 200+ level courses (except independent work)

HSM 354

JOU 204, 531, 535

JPN 320, 321, 334, 451G, 461G

LAS 201

MG 540, 341

MKT 310, 340, 450

NRC = all 200+ level courses

PHI = all 200+ level courses

PSY = all 200+ level courses

RUS 270, 271

SOC = all 200+ level courses

SPA 312, 314

ST 500

STA = all 200+ level courses

SW 222, 320, 420, 430, 505, 523, 571

TEL 310, 319, 453, 510, 520

Major/Core hours: \( \geq 39 \)

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation.

Total Minimum Hours Required for Degree \( \geq 120 \)

Minor in Political Science

The minor in political science requires a prerequisite course (PS 101) and 18 hours of course work at the 200 level or above to be distributed as follows:

1. Six hours of 200 level courses, three hours of which must be either PS 210, PS 212, or PS 235.

2. Four other courses, at least three of which must be at the 400 or 500 level.
Bachelor of Science with a major in PSYCHOLOGY

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: with the exception of PSY 215, PSY 216, PSY 312, PSY 456, and PSY 565, courses with a PSY prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math ................................................................. 0-3
II. Foreign Language (placement exam recommended) ................. 0-8
III. 2-minute Logic .............................................. 0-6
IV. Written Communication ........................................ 0-4
V. Oral Communication .......................................... 0-3
VI. Natural Sciences ............................................. 6
VII. Social Sciences (partially completed by Major Requirement) .... 6
VIII. Humanities .................................................. 6
IX. Cross-Cultural (choose a Humanities course) ....... 3
X. Electives (choose two Natural Science courses) ............. 6

USP hours: ...................................................... 30-48

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Major Core Requirements

PSY 216 Applications of Statistics in Psychology .................. 4
PSY 311 Learning and Cognition .................................... 3
*PSY 312 Brain and Behavior ..................................... 3
PSY 313 Personality and Individual Differences .............. 3
PSY 314 Social Psychology and
Cultural Processes ............................................... 3

Major Core hours: ............................................. 16

Other Course Work Required for the Major

From the Major Department:

Advanced Lecture/Lab ............................................. 4
Choose from: PSY 427, 430, 440, 450, *456, 460, 552

Capstone Option .................................................. 3-8
Choose from: PSY 495 and 496, 499, 500, 534, 535, 561, 562, 563, 564, *565, 566

Electives ............................................................... 0-5
Choose from: PSY 223, 302, 331, 395, 399, 459, 533, 558

From Outside the Major Department

Choose 14 hours outside Psychology at the 300+ level.

Other Major hours: .............................................. 26

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation ......................... 5

Total Minimum Hours

Required for Degree ................................................. 120

Bachelor of Science with a major in RUSSIAN STUDIES

The requirements for the B.A. and B.S. with a major in Russian Studies are listed under in this A&S section under Modern and Classical Languages, Literatures and Cultures.

SOCIOLGY

Sociology emphasizes the study of human behavior and basic social processes. The discipline provides excellent preparation for careers in a variety of occupations and professions including planning and community development, law, public relations and advertising, personnel administration, private business and government administration, health and human services, family relations, criminal justice fields, and others.

Students may major or minor in sociology. The department offers a Bachelor of Arts and a Bachelor of Science through the College of Arts and Sciences. Students may also complete a second major or minor in sociology even though they are enrolled in other colleges. In addition, students seeking certification in social studies education at the secondary level through the College of Education may also emphasize sociology in their programs.

Courses offered by the department cover a wide range of topics and issues. Areas such as social inequalities, work, organizations, economy, globalization, family, community, environment, crime, law and deviance comprise a large part of the curriculum. Students may also pursue special readings courses and experiential education placements or internships through the department.

Bachelor of Arts with a major in SOCIOLGY

120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours in the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on pages 101-103.

University Studies Program Requirements

I. Math ................................................................. 0-3
II. Foreign Language (placement exam recommended) ................. 0-8
III. 2-minute Logic .............................................. 0-6
IV. Written Communication ........................................ 0-4
V. Oral Communication .......................................... 0-3
VI. Natural Sciences ............................................. 6
VII. Social Sciences (partially completed by Major Requirement) .... 3
VIII. Humanities .................................................. 6
IX. Cross-Cultural (choose a Humanities course) ....... 3
X. Electives (choose two Natural Science courses) ............. 6

USP hours: ...................................................... 30-48

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Major Core Requirements

I. Foreign Language (placement exam recommended) ................. 0-8
II. Disciplinary Requirements
a. Natural Science (completed by Major Requirement)
   Requirement)
   b. Social Science (completed by Premajor Requirement)

III. Humanities (completed by USP Cross-Cultural Requirement)

IV. Laboratory or Field Work (completed by Premajor Requirement)

V. Electives ......................................................... 6

Other Course Work Required for the Major

From the Major Department:

Advanced Lecture/Lab ............................................. 4
Choose from: PSY 427, 430, 440, 450, *456, 460, 552

Capstone Option .................................................. 3-8
Choose from: PSY 495 and 496, 499, 500, 534, 535, 561, 562, 563, 564, *565, 566

Electives ............................................................... 0-5
Choose from: PSY 223, 302, 331, 395, 399, 459, 533, 558

From Outside the Major Department

Choose 14 hours outside Psychology at the 300+ level.

Other Major hours: .............................................. 26

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation ......................... 5

Total Minimum Hours

Required for Degree ................................................. 120

Bachelor of Science with a major in PSYCHOLOGY

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: with the exception of PSY 215, PSY 216, PSY 312, PSY 456, and PSY 565, courses with a PSY prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on pages 103-104.

University Studies Program Requirements

I. Math ................................................................. 0-3
II. Foreign Language (placement exam recommended) ................. 0-8
III. 2-minute Logic .............................................. 0-6
IV. Written Communication ........................................ 0-4
V. Oral Communication .......................................... 0-3
VI. Natural Sciences ............................................. 6
VII. Social Sciences (partially completed by Major Requirement) .... 3
VIII. Humanities .................................................. 6
IX. Cross-Cultural (choose a Humanities course) ....... 3
X. Electives (choose two Natural Science courses) ............. 6

USP hours: ...................................................... 30-48

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.

Major Core Requirements

PSY 216 Applications of Statistics in Psychology .................. 4
PSY 311 Learning and Cognition .................................... 3
*PSY 312 Brain and Behavior ..................................... 3
PSY 313 Personality and Individual Differences .............. 3
PSY 314 Social Psychology and
Cultural Processes ............................................... 3

Major Core hours: ............................................. 16

Other Course Work Required for the Major

From the Major Department:

Advanced Lecture/Lab ............................................. 4
Choose from: PSY 427, 430, 440, 450, *456, 460, 552

Capstone Option .................................................. 3-8
Choose from: PSY 495 and 496, 499, 500, 534, 535, 561, 562, 563, 564, *565, 566

Electives ............................................................... 0-5
Choose from: PSY 223, 302, 331, 395, 399, 459, 533, 558

From Outside the Major Department

Choose 14 hours outside Psychology at the 300+ level.

Other Major hours: .............................................. 26

Electives

Choose electives to lead to the minimum total of 120 hours required for graduation ......................... 5

Total Minimum Hours

Required for Degree ................................................. 120

*Course used towards completion of a USP or College Requirement

*This requirement is fulfilled for students who have completed a 3-credit introductory psychology course at an accredited college or university, or who have scored a 3 on the Advance Placement Psychology Test.
140

College of Arts and Sciences
VII. Social Sciences (partially completed by
Premajor Requirement) ...........................................
VIII. Humanities ..........................................................
IX. Cross-Cultural (choose a 300+ level
Humanities course) ..................................................
X. Electives (choose two Natural Science courses) .....

3
6
3
6

USP hours: ............................................. 30-48

Graduation Writing Requirement
After attaining sophomore status, students must complete
a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.
Graduation Writing Requirement Hours: .. 3

College Requirements
I. Foreign Language (placement exam
recommended) ........................................................ 0-8
II. Disciplinary Requirements
a. Natural Science (completed by USP Elective
Requirement)
b. Social Science (completed by Premajor and
Major Requirements)
c. Humanities (partially completed by USP
Cross-Cultural Requirement) ....................... 3
III. Laboratory or Field Work (completed by Major
Requirement)
IV. Electives ................................................................ 6
College Requirement hours: .................. 9-17

Premajor Requirements
*SOC 101 Introduction to Sociology
or
*CLD 102 The Dynamics of Rural Social Life ............ 3
plus one of the following:
SOC 235 Inequalities in Society
SOC 299 Introductory Topics in Sociology
(Subtitle required) ..................................................... 3
Premajor hours: ............................................ 6
Major Core Requirements
SOC 302 Sociological Research Methods .................. 3
or
PSY 215 Experimental Psychology ............................ 4
SOC 303 Quantitative Sociological Analysis ........... 3
or
PSY 216 Applications of Statistics
in Psychology ........................................................... 4
SOC 304 Classical Sociological Theory ..................... 3
SOC 305 Contemporary Sociological Theory ............. 3
Major Core hours: .................................. 12-14
Other Course Work Required for the Major
From the Major Department:
Choose 15 hours of 300+ level Sociology courses, at least
6 of which must be at the 400+ level ......................... 15
From Outside the Major Department
Choose 15 hours outside Sociology at the 300+ level.
Maximum of 3 hours of 200+ level courses used to satisfy
USP and College requirements can also be counted here.
These courses must be chosen from the list that follows, or
approved by a Sociology Undergraduate
Advisor ...................................................................... 15
A-H – all 200+ courses
AAD 310, 340, 350, 399, 402, 499
AAS – all 200+ courses
AC – all 200+ courses
AEC 201, 302, 303, 304, 305, 309, 316, 320, 324, 341,
410, 445G, 471, 479, 483, 532
AED – all 200+ courses
AEN 463G
AIS 328, 330, 331, 435
ANT – all 200+ courses
APP – all 200+ courses
ARC 222, 223, 314, 315, 324, 325, 332, 333, 461, 511,
512, 513, 514, 515, 589

BIO 325, 375
BSC 331, 527, 529, 546
CLA 210, 229, 230, 301, 302, 312, 313, 390, 426G,
450G, 509, 522, 523, 526, 527, 552, 553, 557
CLD – all 200+ courses
COM 249, 252, 281, 319, 325, 350, 351, 365, 381, 419,
449, 452, 453, 454, 462, 525, 555, 571, 581
CPC 501
ECO – all 200+ courses
EDL 401
EDP 202, 518, 522, 548, 557, 580
EDS 516, 547
EDU 305
ENG 211, 212, 230, 231, 232, 233, 234, 261, 262, 264,
270, 271, 281, 283, 310, 330, 331, 332, 333, 334, 335,
487G, 488G, 519, 570, 572
ENS – all 200+ courses
EPE 301, 317, 554, 555, 557, 570
FAM 250, 252, 253, 254, 255, 258, 357, 360, 390, 401,
402, 475, 502, 509, 544, 553, 554, 563, 585
FCS – all 200+ courses
GEN 200, 300, 301, 501
GEO – all 200+ courses
GER 263, 264, 311, 312, 317, 319, 361, 415G, 416G,
420G
GRN 585
GWS – all 200+ courses
HES – all 300+ courses
HIS – all 200+ courses
HJS 324, 325, 425
HMT 210, 270, 320, 330, 460, 470, 480, 488
HON – all 200+ courses
HP 501
HSE 510
HSM 260, 351, 353, 354, 450, 451, 452, 510, 511
HUM – all 300+ courses
IEC 508, 509, 552
ISC 311, 321, 331, 341, 351, 361, 371 431, 441, 451, 461,
491, 497, 541, 543
ITA 443G, 563, 566, 569
JAT 464, 508
JOU 304, 319, 430, 455, 460, 485, 531, 532, 535
JPN 320, 321, 334, all 400+ courses
KHP 300, 330, 430, 485, 547, 573, 580, 585
LA 205, 206
LAS – all 200+ courses
LIN 210, 211, 212, 310, 317, 319
MAT 247, 315, 414, 425, 470, 480, 522, 533, 547
MGT 301, 309, 320, 340, 341, 390, 410, 422, 423, 430,
491, 492, 499
MKT 300, 310, 320, 330, 340, 390, 410, 430, 435, 445,
450
MUS 201, 202, 203, 206, 222, 300, 301, 302, 303, 325,
330, 390, 400G, 500, 501, 502, 503, 504, 505, 506
NFS 516
NRC 301, 320, 330, 381, 555
NUR 510, 512, 514
OR 524, 525
PHI – all 200+ courses
PHR 222, 520
PS – all 200+ courses
PSY – all 200+ courses
RC 510, 515, 516, 520, 530, 540, 547
RUS 270, 271, 370, 380, 390, 400G, 499
SPA 312, 314, 320, 322, 324, 361, 424, 432, 434, 438G,
444, 454, 464, 474, 512, 553
ST 500
STA – all 200+ courses
SW 222, 300, 320, 322, 354, 400, 401, 420, 421, 430, 444,
445, 450, 470, 505, 510, 514, 515, 516, 523, 571, 580,
595
TEL 201, 300, 310, 319, 320, 355, 453, 482, 510, 520,
525, 555
UK 301
Other Major hours: ..................................... 30

Electives
Choose electives to lead to the minimum total of 120
hours required for graduation ...................................... 5

Total Minimum Hours
Required for Degree ..................... 120
*Course used towards completion of a USP Requirement.

Bachelor of Science with a major in

SOCIOLOGY
120 hours (minimum)

Any student earning a Bachelor of Science
(BS) degree must complete a minimum of 60
hours in natural, physical, mathematical, and
computer science. Please note: courses with
a SOC prefix are generally not accepted towards fulfilling this 60-hour requirement.
Therefore, be sure to keep this requirement in
mind as you choose your course work for the
requirements in the major. See the complete
description of College requirements for a Bachelor of Science degree, including a specific
listing of courses applicable to the 60-hour
requirement, on pages 103-104.
University Studies Program Requirements
I. Math ...................................................................... 0-3
II. Foreign Language (placement exam
recommended) ........................................................ 0-8
III. Inference–Logic .................................................. 3-6
IV. Written Communication ..................................... 0-4
V. Oral Communication ............................................... 3
VI. Natural Sciences .................................................... 6
VII. Social Sciences (partially completed by
Premajor Requirement) ........................................... 3
VIII. Humanities .......................................................... 6
IX. Cross-Cultural (choose a Humanities course) .... 3
X. Electives (choose two Natural Science courses) ...... 6
USP hours: ............................................. 30-48

Graduation Writing Requirement
After attaining sophomore status, students must complete
a Graduation Writing Requirement course. See “University Writing Requirement” on page 72 of this Bulletin.
Graduation Writing Requirement Hours: .. 3

College Requirements
I. Foreign Language (placement exam
recommended) ........................................................ 0-8
II. Disciplinary Requirements
a. Natural Science (completed by USP Elective
Requirement)
b. Social Science (completed by Premajor and
Major Requirements)
c. Humanities (completed by USP Cross-Cultural
Requirement)
III. Laboratory or Field Work (completed by Major
Requirement)
IV. Electives ................................................................ 6
College Requirement hours: .................. 6-14

Premajor Requirements
*SOC 101 Introduction to Sociology
or
*CLD 102 The Dynamics of Rural Social Life ............ 3
plus one of the following:
SOC 235 Inequalities in Society
SOC 299 Introductory Topics in Sociology
(Subtitle required) ..................................................... 3
Premajor hours: ............................................ 6


Major Core Requirements
SOC 302 Sociological Research Methods ................. 3
or
PSY 215 Experimental Psychology ............................ 4
SOC 303 Quantitative Sociological Analysis .............. 3
or
PSY 216 Applications of Statistics
in Psychology ......................................................... 4
SOC 304 Classical Sociological Theory .................... 3
SOC 305 Contemporary Sociological Theory ............ 3

Major Core hours: ............................................. 12-14

Other Course Work Required for the Major
From the Major Department:
Choose 15 hours of 300+ level Sociology courses, at least 6 of which must be at the 400+ level ................. 15
From Outside the Major Department
Choose 15 hours outside Sociology at the 300+ level. Maximum of 3 hours of 200+ level courses used to satisfy USP and College requirements can also be counted here. These courses must be chosen from the list that follows, or approved by a Sociology Undergraduate Advisor .................................................. 15

A-H – all 200+ courses
AAD 310, 340, 350, 399, 402, 499
AAS – all 200+ courses
AC – all 200+ courses
AEC 216, 303, 304, 305, 309, 316, 320, 324, 341, 410, 445G, 471, 479, 483, 532
AED – all 200+ courses
AEN 463G
AIS 320, 330, 331, 435
ANT – all 200+ courses
APP – all 200+ courses
ARC 222, 223, 234, 315, 324, 325, 332, 461, 511, 512, 514, 515, 589
BIO 325, 375
BSC 331, 337, 527, 529, 546
CLA 219, 229, 230, 301, 302, 312, 313, 390, 426G, 450G, 509, 522, 523, 526, 527, 552, 553, 557
CLD – all 200+ courses
COM 249, 252, 281, 319, 325, 350, 351, 365, 381, 419, 449, 452, 453, 454, 462, 525, 555, 571, 581
CPC 501
ECO – all 200+ courses
EDL 401
EDP 202, 518, 522, 548, 557, 580
EDS 516, 547
EDU 305
ENS – all 200+ courses
EPE 301, 317, 554, 555, 557, 570
FAM 250, 252, 253, 254, 255, 258, 357, 360, 390, 401, 402, 475, 502, 509, 544, 553, 554, 563, 585
FCS – all 200+ courses
GEN 200, 300, 301, 501
GEO – all 200+ courses
GRN 585
GWS – all 200+ courses
HES – all 300+ courses
HIS – all 200+ courses
HJS 324, 325, 425
HMT 210, 270, 320, 330, 460, 470, 480, 488
HON – all 200+ courses
HP 501
HSE 510
HSM 260, 351, 353, 354, 450, 451, 452, 510, 511
HUM – all 300+ courses
IEC 508, 509, 552

Intermediate Minors

Minor in Statistics

The minor in statistics is aimed specifically at social and life science students, as well as students in the traditional mathematical sciences. A minimum of 17 hours of course work is required to complete the minor, as follows:

Track 1

Electives
Choose electives to lead to the minimum total of 120 hours required for graduation ......................... 9

Total Minimum Hours Required for Degree .................. 120

*Course used towards completion of a USP Requirement.

Minor in Sociology

Prerequisites
SOC 101 Introduction to Sociology
or
CLD 102 The Dynamics of Rural Social Life .............. 3 and
Any other 100- or 200-level sociology course ........... 3

Preminor Hours .................................................. 6

Minor Requirements

Students complete an additional 18 hours in sociology, at least 3 of which must be at the 400+ level or above and must include one of the following six-hour blocks:
SOC 302 (or PSY 215) and SOC 303 (or PSY 216) or
SOC 304 and SOC 305 or
SOC 302 (or PSY 215) and SOC 304

Any student wishing to minor in sociology should file an application with the Director of Undergraduate Studies in Sociology prior to entering the program.

STATISTICS

The Department of Statistics at the University of Kentucky is concerned with three essential functions: teaching, research, and consulting in statistics. The department does not offer an undergraduate degree, but students may elect to include statistics as part of a topical major or to minor in statistics. The program in mathematical sciences also includes several statistics courses. The Master of Science and the Doctor of Philosophy degrees are offered.

Research is being actively pursued in statistical theory and methods, both parametric and nonparametric, linear models, inference, stochastic processes, applied probability, and biostatistics.

Consultation on statistical analysis and interpretation of data is provided to researchers working on and off the campus. Particular attention is paid to the consulting needs of graduate students.

Interdisciplinary Minors

African American Studies

The minor in African American Studies provides students with an opportunity to examine the contributions of established academic disciplines towards the understanding of African peoples, particularly those peoples in the New World. It also provides a framework for research and analysis of issues which focus on African American experiences in artistic, literary, historical, and sociopolitical environments. The minor requires 21 hours of study as follows:

1. AAS 200 Introduction to African-American Studies
2. AAS 400 Special Topics in African-American Studies
3. AAS 401 Independent Reading and Research in African-American Studies
4. Any other 100- or 200-level sociology course (as approved by the African American Studies Committee). Among these are:

ENG 264 Major Black Writers
FR 504 Topics in French Literature and Culture (if appropriate)
HIS 254 History of Sub-Saharan Africa
HIS 260 African American History to 1865
HIS 261 African American History 1865-Present
HIS 360 Race and Sports in America
HIS 585 The Age of Jim Crow, 1880-1930
MUS 300 History of Jazz
PHI 300 Undergraduate Seminar (if appropriate)
SPA 468G Twentieth Century Spanish American Literature in Translation (if appropriate)

4. b. At least six hours in the social sciences (as approved by the African American Studies Committee). Among these are:
AAS 432 Race and Ethnic Relations
ANT 431G Cultures and Societies of Sub-Saharan Africa
EDC 560 Education in a Culturally Diverse Society
GEO 336 Geography of Sub-Saharan Africa
PS 417G Survey of Sub-Saharan Politics
PS 461G Civil Liberties
PS 471 Race, Ethnicity and Politics
SOC 235 Inequalities in Society

NOTE: Courses in English and history are strongly recommended.

American Studies

American studies draws together diverse disciplines to examine the historical and contemporary forms and issues of our national life. The program in American Studies takes as its field of study any peoples, cultural expressions and social institutions, however or whenever identified as “American.” Program curricular link faculty, courses, and students across a range of humanities, arts, and social science departments.

The minor centers on two interdisciplinary seminars on selected topics in American studies. Students electing the minor are also encouraged to take a range of elective courses to complement their major. The minor in American Studies prepares students for further graduate or professional training, or for work in education, government, or business.

The minor requires 18 hours of study as follows:

1. AC 301 Topics in American Culture
2. AC 401 Perspectives in American Culture
3. Four additional courses (12 hours) from the following list of approved courses. No more than two courses (or six hours) may be taken in any one discipline:

Art History: A-H 342
Anthropology: ANT 221, ANT 342, ANT 470G, ANT 527, ANT 534
English: GEO 310, GEO 480G
Geography: GEO 320, GEO 321, GEO 322, GEO 490G
History: HIS 260, HIS 261, HIS 265, HIS 350, HIS 351, HIS 560, HIS 461, HIS 463, HIS 464, HIS 465, HIS 466, HIS 467, HIS 572, HIS 573, HIS 574, HIS 575, HIS 576, HIS 577, HIS 578, HIS 579, HIS 580, HIS 581, HIS 582, HIS 584, HIS 585, HIS 586, HIS 596
Music: MUS 206, MUS 222, MUS 300, MUS 301, MUS 506
Philosophy: PHI 514
Sociology: SOC 340, SOC 534

For further information, contact Associate Professor Joanne Melish, 1727 Patterson Office Tower, (859) 257-1014.

Appalachian Studies

This minor offers the student with serious interests in Appalachian regional studies an opportunity to pursue a minor concentration to complement a major in one of the university’s professional or liberal arts programs. This interdisciplinary program enables students to comprehend more fully the history, social structure, and culture of the region—its people, its problems, and its future.

The minor in Appalachian Studies requires 18 hours of course work to include the following:
1. APP 200 Introduction to Appalachian Studies
2. Choose fifteen hours of Appalachian Studies courses. These courses must be chosen from the list below, or approved by the Director of Appalachian Studies:

   APP 300 Topics in Appalachian Studies (Subtitle required)
   APP 395 Independent Study
   APP 399 Practicum
   ENG 232 Literature and Place (if appropriate)
   GEO 365 Special Topics in Regional Geography (Subtitle required) (if appropriate)
   HIS 579 History of the New South
   HIS 580 History of Appalachia
   MUS 301 Appalachian Music
   PS 456G Appalachian Politics
   SOC 343 Political Sociology (if appropriate)
   SOC 534 Sociology of Appalachia
   SOC 735 Topics in Social Inequalities (if appropriate)

Note: Introduction to Appalachian Studies (APP 200) is strongly recommended. Individually arranged courses in independent study and experiential education may be counted toward the minor if approved by an Appalachian Studies advisor. Special Topics courses offered by the various departments may also be counted, if appropriate.

For more information about a minor in Appalachian Studies, contact the Director of Appalachian Studies, Dr. Ron Pen, (859) 257-8183 or e-mail at: rpen01@uky.edu. For general information about service and research in the region, contact the Appalachian Center, 624 Maxwell Hall, Lexington, KY 40506-0347, (859) 257-4852.

Cognitive Science

The undergraduate minor in Cognitive Science is aimed to provide undergraduates with an introduction to cognitive science as a theory of the mind as an intelligent (information-processing) system. Our objectives are to ensure that each student (a) be able to articulate, at least in broad terms, some of the assumptions that have been thought to unify the various subfields within the domain of cognitive science; (b) explore more than one discipline’s approach to matters pertaining to cognitive science; and (c) explore in some detail at least one of the five main disciplines contributing to cognitive science (biology, computer science, linguistics, philosophy, and psychology). CGS 500 (Cognitive Science in Theory and Practice) will be run with the aim in mind of getting students to satisfy (a); and distribution requirements aim to put students in a position to satisfy (b) and (c).

To receive an undergraduate minor in Cognitive Science, the student must successfully complete 18 credit hours to be distributed as follows:

1. CGS 500 Cognitive Science in Theory and Practice
2. Fifteen credits from among the following:
   - PSY 223 Developmental Psychology
   - PSY 311 Learning and Cognition
   - PSY 312 Brain and Behavior
   - PSY 427 Cognitive Processes
   - PSY 456 Behavioral Neuroscience
   - PSY 552 Animal Behavior
   - PSY 562 Advanced Topics in Cognitive Psychology (Subtitle required)
   - PSY 564 Advanced Topics in Learning (Subtitle required)
   - PSY 565 Advanced Topics in Neuroscience (Subtitle required)
   - PSY 566 Advanced Topics in Social Psychology (Subtitle required)

Of the fifteen credit hours of courses from this list, (1) at least six credit hours must be in the same core discipline, where core disciplines are biology, computer science, linguistics, philosophy, and psychology; and (2) no more than six credit hours from any single discipline will count towards satisfaction of the requirement.

*Only by approval of the Director of Cognitive Science. The main criterion for approval will be the extent to which the course, as taught during the semester for which the student seeks cognitive science credit, contains a sufficient amount of materials relevant to cognitive science. The Director will make this determination by consultation with relevant faculty from the department teaching the course (including the instructor of the course), in conjunction with the criteria for course inclusion outlined on the Cognitive Science Web page.

For more information, visit the Cognitive Science Web site at: www.as.uky.edu/InterProg/CogSci/ or contact Professor S. Goldberg, 1427 Patterson Office Tower, Department of Philosophy, (859) 257-6540, scgold@uky.edu.
Environmental Studies

Environmental considerations permeate almost every facet of modern life, and concern for "the environment" is practically universal as we approach the twenty-first century. The minor in Environmental Studies is designed to provide students with the opportunity to become conversant in a range of environmental topics, whether as private citizens in their daily lives or as professional members of corporate, government, legal, medical, and educational circles.

The minor draws on topics and perspectives from the natural and physical sciences, the social sciences, and the humanities to underscore the interdisciplinary nature of environmental issues and problems. Students taking the minor are encouraged to integrate the program with their major study focus in order to gain a competitive advantage in grappling with environmental topics.

The minor in Environmental Studies requires 18 hours of course work including the following:

1. ENS 200 Introduction to Environmental Studies* .......................... 3
2. Six hours chosen from the following list of socio-cultural perspectives:
   - ANT 375 Ecology and Social Practice ........................................ 3
   - GEO 210 Pollution, Hazards, and Environmental Management ........... 3
   - GEO 550 Sustainable Resource Development and Environmental Management .......................... 3
   - PS 391 Special Topics in Political Science (Subtitle required) ..................... 3
   - PS 456 Appalachian Politics ....................................................... 3
   - ENS 300 Special Topics (Subtitle required) .................................... 3
   - ENS 395 Independent Work ...................................................... 3
3. Six hours chosen from the following list of science and technology perspectives:
   - FOR 205 Forest and Wildland Soils and Landscapes ......... 4
   - FOR 340 Forest Ecology ............................................................... 3
   - FOR 350 Silviculture ................................................................. 3
   - GEO 251 Weather and Climate .................................................. 3
   - GLY 341 Landforms ................................................................ 3
   - GLY 385 Hydrogeology .............................................................. 3
   - BIO 325 Introductory Ecology .................................................... 4
   - ENS 300 Special Topics (Subtitle required) ................................. 3
   - ENS 395 Independent Work ...................................................... 3
4. ENS 400 Senior Seminar (Subtitle required)* ................................. 3
   *ENS 200 and ENS 400 satisfy the University Studies' cross-disciplinary requirement.

At least six of the twelve elective hours must be at the 300-level or above.

Elective courses must be drawn from outside the student’s major.

Alternative elective courses may be approved by the Environmental Studies Program Director.

For further information, contact Professor Ernest J. Yanarella, 1659 Patterson Office Tower, (859) 257-2989, e-mail: ejyana@email.uky.edu.

Gender and Women’s Studies

The Gender and Women’s Studies program assists students who wish to develop undergraduate majors in Gender and Women’s Studies under the Topical Studies major program. For more information, see “Topical Studies Majors” in the College of Arts and Sciences section of this Bulletin. Students undertaking a Topical Major in Gender and Women’s Studies will need to develop their curriculum with a GWS faculty member.

The minor in Gender and Women’s Studies provides students an opportunity to examine and integrate the contributions of established academic disciplines in understanding the historical and contemporary roles and status of women. Also, the program provides a framework for research and analyses which focus upon women’s issues. The minor requires 21 hours of course work, as outlined below:

GWS 200 Introduction to Gender and Women’s Studies in the Social Sciences
or
GWS 201 Introduction to Gender and Women’s Studies in the Arts and Humanities .................. 3
GWS 350 Introduction to Feminist Theorizing ......... 3
GWS 399 Internship in Gender and Women’s Studies ...................................................... 3
*GWS 416 Cross-Cultural Perspectives in Gender and Women’s Studies ......................... 3

Plus additional nine hours of electives to be selected with the approval of the Director of the Gender and Women’s Studies Program.

GWS 416 is offered every other year; please check with the Gender and Women’s Studies Program for more information.

Courses used for the Gender and Women’s Studies topical major, minor or graduate certificate must be taught by a Gender and Women’s Studies Affiliated Faculty.

For further information, contact Professor Deborah Crooks, Director of Gender and Women’s Studies, 112 Breckinridge Hall, (859) 257-1388.

Indian Culture

This minor is designed to allow students to develop a more profound understanding of Indian culture. The curriculum is strongly interdisciplinary, encompassing courses in linguistics, anthropology, English, geography, mathematics, philosophy, political science, and sociology.

Students completing the minor will possess: (1) an ability to read Sanskrit (vital for comprehending Indian culture); (2) a well-rounded, multidisciplinary understanding of the culture and geography of India and of contemporary Indian society and politics; and (3) a high degree of preparedness to pursue careers in business or teaching that require knowledge of Indian society and its traditions.

The minor in Indian Culture requires 18 hours of course work, as follows:

1. Sanskrit Language Courses (6 hours)
   - LIN 520 Sanskrit I ................................................................. 3
   - LIN 521 Sanskrit II ............................................................... 3
2. Twelve hours of courses on India from anthropology, English, geography, linguistics, mathematics, philosophy, political science, sociology, and independent studies in India. Students choose from the following courses:
   - *ANT 327 Culture and Societies of India ......................... 3
   - *GEO 330 Geography of South Asia .............................................. 3
   - GEO 365 Special Topics in Regional Geography (Subtitle required) .................. 3
   - GEO 565 Topics in Geography ................................................. 3
   - LIN 395 Independent Work ................................................... 3
   - MA 330 History of Mathematics ......................................... 3
   - *PHI 343 Asian Philosophy .................................................... 3
   - *PS 420G Governments and Politics of South Asia ................ 3
   - *SOC 380 Globalization: A Cross-Cultural Perspective .......................... 3

   *Also satisfies the USP cross-cultural requirement.

Students in the Indian Culture minor program will be encouraged to participate in a study program in India in the course of their undergraduate education.

For further information, contact Professor Gregory Stump (English and linguistics), 1253 Patterson Office Tower, (859) 257-1184; Professor Paul Karan (geography), 1439 Patterson Office Tower, (859) 257-6953; or Professor Avinash Sathaye (mathematics), 703 Patterson Office Tower, (859) 257-8832.

Islamic Studies

The interdisciplinary minor in Islamic Studies provides the opportunity to study the culture, language, literature, religion, history, and philosophy of Muslim peoples throughout the world from antiquity to the present. Students will acquire a rounded understanding of Islamic culture, the ability to interpret information and news from the Middle East and elsewhere in an independent way, with understanding of the issues from the perspective of the Muslim countries, and will be prepared to pursue careers that require a knowledge of Islamic civilization.

1. Minor Requirements (6 hours)
   - AIS 328 Islamic Civilization I ...................................................... 3
   - AIS 330 Islamic Civilization II .................................................... 3
2. Minor Electives (12 hours)
   - AIS 101 Elementary Modern Standard Arabic ................ 4
   - AIS 102 Elementary Modern Standard Arabic ................ 4
   - AIS 201 Intermediate Modern Standard Arabic ............. 3
   - AIS 202 Intermediate Modern Standard Arabic ............. 3
   - HIS 247 History of Islam and Middle East Peoples, 500-1250, A.D. 3
   - HIS 248 History of Islam and Middle East Peoples, 1250 to the Present ....... 3
   - AIS 301 Colloquial Arabic I ...................................................... 3
   - AIS 302 Colloquial Arabic II ..................................................... 3
   - AIS 331 Classical Arabic Literature (in English) ............ 3
   - AIS 338 Women and Islam ....................................................... 3
   - AIS 340 Fundamentalism and Reform in Islam .................. 3
   - AIS 395 Independent Work in Arabic/Islamic Studies .......... 1-3
   - AIS 440 Introduction to the Quran ........................................... 1-3
   - AIS 442 Arabic Reading I .......................................................... 1-3
   - AIS 443 Arabic Reading II .......................................................... 1-3
   - AIS 435 Topics in Islamic Studies: (Subtitle required) .............. 3
   - AIS 495G Advanced Independent Work in Arabic/Islamic Studies .......... 1-3
   - PHI 504 Islamic and Jewish Philosophy and the Classical Tradition .................. 3
   - HIS 548 History of the Middle East: 1453-1920 .............. 3

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Japan Studies

The Japan Studies minor complements existing majors and prepares students with the skills that are required to work with Japan given its integral place in international business. Students will also become well-versed in the culture and geography of Japan, its history, arts, and environment. This background will prepare students for Japan-related careers in the United States and abroad.

This 23-hour program consists of (1) 14 hours of Japanese language courses, (2) 6 hours of Japanese cultural studies, and (3) 3 hours of elective courses on contemporary East Asian history, politics, and society.

The Japan Studies Program maintains a University of Kentucky Summer Field Station at Yatsushiro (Kyushu) on the campus of the IEC Kyushu International College for summer field research and instruction. Summer field seminars are offered at this site each year.

For further information, contact Professor Doug Slaymaker, Director, Japan Studies Program, (859) 257-7557 or (859) 257-3761; e-mail: nihongo.web@spamex.com.

Judaic Studies

The interdisciplinary minor in Judaic Studies provides students with the opportunity to become acquainted with the culture, language, literature, religion, history, and philosophy of the Jewish people from antiquity to the present.

The minor in Judaic Studies requires 18 hours of course work as follows:

1. Required Courses
   HIS 324 Jewish Thought and Culture I: From Ancient Israel to the Middle Ages* ................................................................. 3
   HIS 325 Jewish Thought and Culture II: From the Expulsion from Spain to the Present* ............................................................ 3

2. Elective Courses
   HIS 101Elementary Hebrew ................................................................. 4
   HIS 102Elementary Hebrew ................................................................. 4
   HIS 201 Intermediate Hebrew ............................................................... 3
   HIS 202 Intermediate Hebrew ............................................................... 3
   PHI 504 Islamic and Jewish Philosophy and the Classical Tradition ................................................................. 3

   *HIS 324 and HIS 325 satisfy the University Studies humanities requirement.

For further information, contact Professor Oliver Leaman, Director of Judaic Studies Program, 1415 Patterson Office Tower, (859) 323-2272.

Note: Other courses in the area may be elected with the approval of the chair of the department.

For further information, contact Professor Suleiman Darrat, 1073 Patterson Office Tower, (859) 257-7037; e-mail: sdarrat@uky.edu.
The College of Business and Economics was established at the University of Kentucky in 1925 as the College of Commerce. The name was changed to College of Business and Economics in 1966. The name was changed again in 1996 to the Carol Martin Gatton College of Business and Economics.

The objective of the instructional programs in the Gatton College of Business and Economics is to prepare the student for a lifelong career in business, government, or research and teaching. The programs are structured to provide each student an opportunity to acquire a background in the basic areas of the arts and sciences, to obtain a broad knowledge of business and economics, and to study in depth one or more fields of special interest.

Accreditation

The Gatton College of Business and Economics is a member of the AACSB – The International Association for Management Education, which accredits undergraduate programs in accounting, business administration, and economics as well as master’s programs in accounting and business administration. The programs of the college enjoy the Assembly’s full accreditation.

Undergraduate Programs in Business and Economics

The University of Kentucky grants the following degrees in the Gatton College of Business and Economics:

- Bachelor of Business Administration
- Bachelor of Science in Accounting
- Bachelor of Science in Business and Economics

Students pursuing the Bachelor of Business Administration may select from these majors: Decision Science and Information Systems, Finance, Management, and Marketing.

ADMISSION POLICY

Admission to the University is sufficient for lower-division admission to the Gatton College of Business and Economics for students with less than a junior standing. However, lower-division admission to the college or any admission to the University does not guarantee upper-division admission to one of the degree programs in the Gatton College of Business and Economics. In general, admission depends upon the qualifications and preparation of the applicants, as well as the availability of the resources for maintaining quality instruction.

Upper-division admission into a degree program is necessary in order to be granted a baccalaureate degree from the Gatton College of Business and Economics. Students who have attained a 3.0 or higher cumulative grade-point average overall and in the English/premajor component required of all students in the Gatton College of Business and Economics and have completed 60 semester hours of college-level credit will be assured admission.

Annually the Gatton College of Business and Economics will review the admission requirements and determine the cumulative grade-point average (Annual Admission GPA), if any, that would be acceptable below the 3.0 standard. The Annual Admission GPA (both overall and in the English/premajor component) will be no lower than 2.5 (see “Appeal Process” below for special circumstances). This GPA will be made available in the Undergraduate Resource Center of the Gatton College of Business and Economics by October 15 of each year. This GPA will be effective the following May 1. The GPA would be effective for any student applying for upper-division admission to the Gatton College of Business and Economics, regardless of the time of his/her enrollment in the University.

To be considered for upper-division admission to any of the undergraduate degree programs offered by the Gatton College of Business and Economics, an applicant must fulfill the following requirements:

1. Enrollment in the University of Kentucky. (Students are considered for acceptance by the college only after acceptance by the University of Kentucky.)
2. Completion of 60 semester hours with a minimum cumulative grade-point average of 3.0 or the current Annual Admission GPA, whichever is lower.
3. Completion of the English/premajor component required of all students within the Gatton College of Business and Economics with a minimum grade-point average of 3.0 or the minimum current Annual Admission GPA, whichever is lower. In addition, students must complete the Microsoft Office Specialist Certification requirements. B&E 102, B&E 103, and B&E 104 are fulfilled upon passing the Microsoft Office Certification Exams in Word, PowerPoint, and Excel. For more information about testing at the Gatton College, visit: http://gatton.uky.edu/Undergraduates/MOS/Index.asp. (The courses meeting the English/premajor requirements are listed under “Graduation Requirements” below.)
4. Submission of an application form to the Gatton College of Business and Economics. The application is available on the Web at: http://gatton.uky.edu/undergraduates.

Applications from students outside the University of Kentucky seeking admission to the Gatton College of Business and Economics, whether for upper-division or lower-division status, must be received by the University Admissions Office no later than April 15 (first summer session); May 15 (second summer session); August 1 (fall semester); and December 1 (spring semester).

Students enrolled in other UK colleges on campus should apply for admission prior to the priority registration period. (The appro-
private deadlines are listed in the University calendar for approved times to change major.

Lower-division students enrolled in the Gatton College of Business and Economics should apply for upper-division admission to the college during the semester they are completing the English/premajor course work. The application for upper-division admission should be made before the priority registration period for the upcoming semester.

Lower-division students in the college who are missing no more than two English/premajor courses will be permitted to complete these courses simultaneously with enrollment in restricted course work if they are otherwise eligible. Eligibility is determined by attainment of junior standing and the minimum cumulative and English/premajor grade-point standings. This privilege will be granted for one semester only.

Students not admitted to an upper-division program in the Gatton College of Business and Economics should be aware that others may be given preference for enrollment in the restricted upper-division courses offered by the Gatton College of Business and Economics.

Enrollment in restricted Business and Economics courses number 300 or above will be limited to:

1. Upper-division Business and Economics students;
2. Lower-division Business and Economics students who are missing no more than two English/premajor courses and are otherwise eligible for upper-division status. (This privilege will be granted for one semester only.);
3. Non-Business and Economics students who are registered for specific programs requiring Business and Economics courses;
4. Other students or categories of students with specific permission of the department offering the course.

In the event of capacity limitations, enrollment preference would be made in the above order.

An applicant from a non-English speaking country is required to take the Test of English as a Foreign Language (TOEFL) and must have a minimum score of 550 in order to be considered for admission. (An equivalent score from another English proficiency test similar to TOEFL may be allowed upon request.)

**Appeal Process**

Students with a GPA below the Annual Admission GPA may appeal for admission into the Gatton College of Business and Economics. If the Appeals Committee feels that there is persuasive evidence that personal, academic or professional circumstances have affected a student’s grade and if the Appeals Committee feels that the student shows promise for successful completion of a degree in the Gatton College of Business and Economics, acceptance may be granted. Materials and information necessary for the appeals process are available in the Undergraduate Resource Center. The deadline for the submission of the appeals is generally 45 days prior to the beginning of the semester; however, appeals materials are not accepted for the first summer session.

**Probation and Academic Suspension**

The following rules apply to students in the Gatton College of Business and Economics.

1. No student with a cumulative GPA of less than 2.0 will be enrolled in the Gatton College of Business and Economics. Any student who fails to maintain a cumulative GPA of 2.0 will be suspended from the Gatton College of Business and Economics and will not be readmitted until this GPA is 2.0 or greater. No probationary notice will be given.
2. Any student enrolled in the Gatton College of Business and Economics who achieves a GPA of less than 2.0 in any semester will be placed on probation.
3. Any student on probation who fails to achieve a 2.0 semester GPA will be dropped from the Gatton College of Business and Economics and will not be readmitted until he or she has obtained a semester GPA of 2.0 or greater for one semester and the student’s cumulative GPA is 2.0 or greater.
4. Students who are suspended twice from the Gatton College of Business and Economics will not be readmitted.

**Scholarships**

The Gatton College of Business and Economics awards scholarships at the freshman and upper-division levels. A small number of scholarships are available to freshmen based upon merit. There is no need to apply for these scholarships. Most upper-division scholarships require application in the spring. The application is available at: [http://gatton.uky.edu/undergraduates](http://gatton.uky.edu/undergraduates).

**DIVISIONS**

**SCHOOL OF ACCOUNTANCY**

The faculty in the School of Accountancy is committed to providing the best possible educational experience for students. The faculty has both breadth and depth of training and experience in public accounting, industry, government and regulated industries, and previous classroom experience.

**DEPARTMENT OF ECONOMICS**

The Department of Economics provides theoretical and applied courses in widely diverse areas including urban problems, labor, monetary economics, international economics, comparative economic systems, and economic history.

**SCHOOL OF MANAGEMENT**

**Decision Science and Information Systems**

The faculty of the Area of Decision Science and Information Systems provides theoretical and applied courses in management science, operations management, management information systems, decision support systems, and business expert systems. Members of the area have interest and experience in both the theoretical development and business application of decision systems.

**Finance**

The Area of Finance offers a variety of courses, both to students who concentrate their studies in finance and to those who desire additional knowledge in various financial areas. Such areas include financial management, security analysis and portfolio management, capital market theory, banking and institutions, and real estate.

**Management**

The faculty in the Area of Management brings extensive academic and practical experience to the classroom. Course offerings cover an array of management areas such as personnel, production and operations, analysis, development and design, and business policy.

**Marketing**

The faculty in the Area of Marketing has extensive experience in industry and government and includes individuals with interests and training in all areas of marketing. Aspects of marketing such as research, strategy and planning, and retail and sales management are covered in marketing course work.

**GRADUATION REQUIREMENTS**

All students in the Gatton College of Business and Economics must fulfill the University Studies requirements as outlined in the University Studies section of this Bulletin. All students in the Gatton College of Business and Economics must fulfill the College requirements, premajor requirements, and College core requirements which are listed below. Major requirements for each program in the college are also listed below.

**College Requirements**

To graduate from the Gatton College of Business and Economics, a student must have a total of 120 credit hours (exclusive of lower
division military science courses, physical education service courses, and performance-type courses) with a 2.0 grade-point standing. (Accounting majors complete a minimum of 121 credit hours.) Students are required to earn at least 50 percent of their business credit hours required for the business degree at the University of Kentucky. A minimum GPA of 2.00 is required in all courses taken at the University of Kentucky used to satisfy the College core. Additionally, a minimum GPA of 2.00 is required in all courses taken at the University of Kentucky used to satisfy upper division departmental requirements.

In addition to fulfilling the First Year Writing Requirement (ENG 104), students must also complete ENG 203, Business Writing; ENG 203 may fulfill the Graduation Writing Requirement.

Each student’s undergraduate curriculum must have a general education component which comprises at least 50 percent of the total credit hours required for obtaining a bachelor’s degree in the Gatton College of Business and Economics. Up to nine semester hours of economics and up to six semester hours of statistics may be counted as part of the general education curriculum.

Students enrolled in the Gatton College of Business and Economics may complete a maximum of nine credit hours of college core and major courses through the Independent Study Program (correspondence).

### English and Premajor Requirements

**Premajor Hours**

Students must complete 26-31 credit hours taken from the following courses:
- University First Year Writing Requirement ................. 4
- ENG 203 Business Writing .................................. 3
- ACC 201 Financial Accounting I ............................. 3
- ACC 202 Managerial Uses of Accounting Information ......... 3
- **ECO 201 Principles of Economics I ...................... 3**
- ECO 202 Principles of Economics II ......................... 3
- STA 291 Statistical Method ................................... 3
- MA 123 Elementary Calculus and Its Applications and MA 162 Finite Mathematics and Its Applications ... 6
- or MA 113 Calculus I ......................................... 4
- B&E 102 Microsoft Office Specialist – Word ................. 0
- B&E 103 Microsoft Office Specialist – PowerPoint .......... 0
- B&E 104 Microsoft Office Specialist – Excel ................ 0

**Subtotal: English and Premajor Hours .................. 26-31**

*May also be used to meet Second-Tier Graduation Writing Requirement.
**May also be used toward partial fulfillment of USP Social Science Requirement.

### College Core

**Hours**

The Core, a total of 18 credit hours, consists of the following courses:
- MKT 300 Marketing Management .................................. 3
- FIN 300 Corporation Finance .................................. 3
- MGT 301 Business Management .................................. 3
- MGT 340 Ethical and Regulatory Environment ............. 3
- DIS 300 Quantitative Analysis in Operations Management .................................. 3

- ECO 391 Economic and Business Statistics .................. 3

**Subtotal: College Core Hours .................. 18**

### Other College Requirements

**Hours**

Students must complete one of the following courses:
- ANT 101 Introduction to Anthropology
- PSY 100 Introduction to Psychology
- SOC 101 Introduction to Sociology .......................... 3-4

**Students must complete one of the following courses:**
- COM 181 Basic Public Speaking
- COM 252 Introduction to Interpersonal Communication
- COM 281 Communication in Small Groups
- COM 287 Persuasive Speaking
- TA 225 Vocal Production for the Stage 1

*This one course may be used toward the USP Social Science Requirement.

**Subtotal: Other College Hours ............... 6-7**

### Electives

Each of the degree programs affords the student considerable opportunity and freedom of choice to take elective courses. The number of electives will vary depending on student and major. Each student must meet the general minimum hours for graduation (accounting majors – 121; all other majors – 120). Students pursuing a second degree must have a minimum of 144 hours. Twelve hours of electives must be taken from courses outside the Gatton College of Business and Economics (six of these hours, if taken for a letter grade, may be used to satisfy the USP elective requirement). Military science (lower division), music performance, KHP activity courses, and UK 101/201 (one credit) courses do not count for electives. A maximum of six hours of technical courses can be counted for electives. A total of four electives may be taken on a pass/fail basis if they are not being used for any other type of requirement, nor taught through the student’s major department(s).

### Policy on Experiential Education

Carol Martin Gatton College of Business and Economics’ faculty work with the Office of Experiential Education to provide students with the opportunity to intern in a business-related field. The College allows a student to apply toward graduation up to six credit hours (pass/fail option only) of EXP 396/Internship credit earned at the University of Kentucky. The maximum credit hours each semester that can be applied toward graduation for EXP 396/Internship credit is three. Credits earned for other internship courses throughout the University are included in the three hours per semester and the six hour maximum for graduation credit. For further information, contact the Office of Experiential Education at (859) 257-3632.

### Advising

The Undergraduate Resource Center (235 Gatton B&E Building) coordinates the academic advising of business students. Generally, lower division students (first- and second-year students) are advised through the Center. Students who have been admitted to the upper division program (juniors and seniors) are advised by departmental faculty advisors.

General information, admission decisions, and the evaluation of transfer credit (including applicability of credit toward degree requirements) are determined by the staff of the Undergraduate Resource Center.

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**Bachelor of Science in ACCOUNTING**

### University Studies Requirements
See “University Studies Program” on pages 77-81.

### English and Premajor Requirements
See “English and Premajor Requirements” on page 147.

**Subtotal: Premajor Hours ............... 26-31**

### College Core
See “College Core” on page 147.

**Subtotal: College Core Hours ............... 18**

### Other College Requirements
See “Other College Requirements” on page 147.

**Subtotal: Other College Hours ............... 6-7**

To graduate with a Bachelor of Science in Accounting, a student is required to have 28 or more credit hours taken from the School of Accountancy in the following courses:

### Major Requirements

**Hours**

- ACC 211 Financial Accounting Lab .......................... 1
- ACC 301 Intermediate Accounting I .......................... 3
- ACC 302 Intermediate Accounting II .......................... 3
- ACC 324 Accounting Information Systems ................. 3
- DIS 320 Management Information Systems ................ 3
- MGT 499 Strategic Management ............................. 3
- plus twelve hours of ACC courses at the 400- or 500-level; at least 6 of the 12 hours must be from the following:
  - ACC 403 Auditing ............................................. 3
  - ACC 407 Concepts of Income Taxation ..................... 3
  - ACC 418 Cost Management .................................. 3

**Subtotal: Major Hours ............... 28**

### Electives

See “Electives” on page 147. Students must complete at least 121 hours to graduate with a degree in Accounting.

**TOTAL HOURS: ........................................... 121**

---

**B.B.A. with a major in DECISION SCIENCE AND INFORMATION SYSTEMS**

### University Studies Requirements
See “University Studies Program” on pages 77-81.

### English and Premajor Requirements
See “English and Premajor Requirements” on page 147.

**Subtotal: Premajor Hours ............... 26-31**

### College Core
See “College Core” on page 147.

**Subtotal: College Core Hours ............... 18**

### Other College Requirements
See “Other College Requirements” on page 147.

**Subtotal: Other College Hours ............... 6-7**
To graduate with a Bachelor of Business Administration degree, a student is required to have at least 18 credit hours as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIS 320 Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>DIS 350 Quantitative Analysis in Management</td>
<td>3</td>
</tr>
<tr>
<td>DIS 406 Production and Inventory Control</td>
<td>3</td>
</tr>
<tr>
<td>DIS 450 Information Technology for Organizational Decision Making</td>
<td>3</td>
</tr>
</tbody>
</table>

plus two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIS 390 Special Topics in Decision Science and Information Systems (Subtitle required)</td>
<td>3</td>
</tr>
<tr>
<td>DIS 395 Individual Work in Decision Science and Information Systems</td>
<td>1-3</td>
</tr>
<tr>
<td>DIS 506 Productivity and Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>DIS 520 Advanced Business Data Processing and Information</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal: Major Hours** ........................................ 18

**Electives**

See “Electives” on page 147. Students must complete a minimum of 120 hours to graduate with a degree in Business Administration.

**TOTAL HOURS:** ........................................ 120

---

**B.B.A. with a major in MARKETING**

**University Studies Requirements**

See “University Studies Program” on pages 77-81.

**English and Premajor Requirements**

See “English and Premajor Requirements” on page 147.

**College Core**

See “College Core” on page 147.

**Other College Requirements**

See “Other College Requirements” on page 147.

**Subtotal: Major Hours** ........................................ 26-31

**Electives**

See “Electives” on page 147. Students must complete a minimum of 12 credit hours as follows:

- MKT 310 Consumer Behavior ........................................ 3
- MKT 340 Introductory Marketing Research ........................................ 3
- MKT 450 Marketing Strategy and Planning ........................................ 3

plus three of the following:

- MKT 320 Retail and Distribution Management ........................................ 3
- MKT 330 Promotion Management ........................................ 3
- MKT 390 Special Topics in Marketing (Subtitle required) ........................................ 1-3
- MKT 410 Personal Selling ........................................ 3
- MKT 415 Internet Marketing ........................................ 3
- MKT 425 Franchising ........................................ 3
- MKT 430 Services Marketing Management ........................................ 3
- MKT 435 International Marketing ........................................ 3
- MKT 445 Sports Marketing ........................................ 3

**Subtotal: Major Hours** ........................................ 18

To graduate with a Bachelor of Business Administration degree, a student is required to have at least 18 credit hours as follows:

**Subtotal: Major Hours** ........................................ 24

---

**B.B.A. with a major in FINANCE**

**University Studies Requirements**

See “University Studies Program” on pages 77-81.

**English and Premajor Requirements**

See “English and Premajor Requirements” on page 147.

**College Core**

See “College Core” on page 147.

**Other College Requirements**

See “Other College Requirements” on page 147.

**Subtotal: Major Hours** ........................................ 26-31

**Electives**

See “Electives” on page 147. Students must complete a minimum of 120 hours to graduate with a degree in Business Administration.

**TOTAL HOURS:** ........................................ 120

---

**B.S.B.E. with a major in ECONOMICS**

**University Studies Requirements**

See “University Studies Program” on pages 77-81.

**English and Premajor Requirements**

See “English and Premajor Requirements” on page 147.

**College Core**

See “College Core” on page 147.

**Other College Requirements**

See “Other College Requirements” on page 147.

**Subtotal: Major Hours** ........................................ 26-31

**Electives**

See “Electives” on page 147. Students must complete a minimum of 24 credit hours as follows:

- ECO 401 Intermediate Microeconomic Theory .................. 3
- ECO 402 Intermediate Macroeconomic Theory .................. 3
- ECO 499 Seminar in Economics (Subtitle required) .................. 3

Upper-level elective in Gatton College .................. 3

ECO electives .................. 12

In addition, economics majors must complete COM 199 to satisfy USP requirements.

**Subtotal: Major Hours** ........................................ 24

---

**MINORS**

**NOTE:** In addition to completing the minor requirements, students must complete at least six hours in each minor with courses that are not counted for any other academic program in the College.

**Minor Residency Requirement**

At least half of all upper-division classes used to complete each minor must be earned from the Gatton College.

**Minor in Economics**

**Hours**

- ECO 201 Principles of Economics I .................. 3
- ECO 202 Principles of Economics II .................. 3
- ECO 401 Intermediate Microeconomic Theory or .......... 3
- ECO 402 Intermediate Macroeconomic Theory ........ 3

Three additional economics courses at the 300-level or above .................. 9

Students must take at least six hours of upper-division classes from the Gatton College (50 percent of the upper-division requirement for a minor).
Minor in Business

NOTE: This minor is not available to students pursuing a major in the Gatton College of Business and Economics. Students should note that some courses in the minor have CS 101 as a prerequisite. Further, MA 113 (or MA 123) is a prerequisite for STA 291, a preminor requirement. STA 291 is a prerequisite for FIN 300, a minor requirement. Students who choose DIS 300 must complete MA 113 or MA 123/162.

Students wishing to complete a minor in Business must complete the following:

### Preminor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 201 Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 202 Managerial Uses of Accounting Information</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201 Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 202 Principles of Economics II</td>
<td>3</td>
</tr>
<tr>
<td>STA 291 Statistical Method</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete the preminor requirements prior to taking any course in the minor requirements.

Students must take at least six hours of upper-division classes from the Gatton College (50 percent of the upper-division requirement for a minor).

### Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIS 300 Quantitative Analysis in Operations Management or DIS 310 Business Computing Systems</td>
<td>3</td>
</tr>
<tr>
<td>FIN 300 Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>MGT 301 Business Management</td>
<td>3</td>
</tr>
<tr>
<td>MKT 300 Marketing Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor in International Business

To earn the minor in International Business, complete the following:

### Prerequisite

Complete the College premajor with a grade-point standing meeting the Annual Admission GPA, plus

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 300 Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>MKT 300 Marketing Management</td>
<td>3</td>
</tr>
</tbody>
</table>

### Course Component

Complete 15 hours of course work, including:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 309 Introduction to International Business</td>
<td>3</td>
</tr>
<tr>
<td>AEC/ECO 471 International Trade</td>
<td>3</td>
</tr>
<tr>
<td>FIN 423 International Finance</td>
<td>3</td>
</tr>
<tr>
<td>MKT 435 International Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

plus one course from world regional/foreign language concentrations (developed by UK’s Office of International Affairs) that is not used to satisfy any University Studies Program requirements. This course must be above the 200 level and have a strong cultural component.

Students must take at least nine hours of upper-division classes from the Gatton College (50 percent of the upper-division requirement for a minor).

### Minor in Quantitative Financial Analysis

### Preminor Requirements

Students must attain upper-division status in the Gatton College, or complete MA 113, MA 114, MA 213 and attain junior status.

### Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 430 Financial Modeling</td>
<td>3</td>
</tr>
<tr>
<td>FIN 431 Derivative Asset Pricing</td>
<td>3</td>
</tr>
<tr>
<td>FIN 432 Quantitative Portfolio Management</td>
<td>3</td>
</tr>
</tbody>
</table>

GRADUATE PROGRAMS

The Gatton College of Business and Economics offers the following graduate degrees through the Graduate School at UK: (1) Master of Science in Accounting, (2) Master of Business Administration, (3) Ph. D. in Business Administration, (4) Master of Science in Economics, and (5) Ph.D. in Economics. Additional information may be obtained from the Associate Dean for Graduate Studies, Gatton College of Business and Economics, and from The Graduate School Bulletin.
The College of Communications and Information Studies consists of the Department of Communication, the School of Journalism and Telecommunications, and the School of Library and Information Science. The Department of Communication educates its students in interpersonal, small group, mass, health and organizational communication, and communication theory and research. Graduates pursue a variety of career paths in areas such as corporate communication, health communication, personnel, education, media, and government. The journalism area within the School of Journalism and Telecommunications educates its students for professional careers in the media as writers, editors, and broadcasters. The integrated strategic communication area within the School prepares students for careers as professionals in the allied areas of advertising, public relations, and direct response communication. The telecommunications area within the School of Journalism and Telecommunications educates its students in telecommunications technology, management, programming, research, audio-video production, and the societal consequences of electronic media. The School of Library and Information Science provides students with the basic knowledge and skills required to function effectively in beginning professional positions in various types of libraries and information-providing agencies.

Accreditation

Majors in the School of Journalism and Telecommunications have national accreditation from the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC).

Undergraduate Programs in Communications and Information Studies

The University of Kentucky grants the following degrees in the College of Communications and Information Studies:

- Bachelor of Arts
- Bachelor of Science

Students pursuing either the Bachelor of Arts or the Bachelor of Science select from these majors: communication, integrated strategic communication, journalism, and telecommunications. Students may also select a minor in communication and a minor in telecommunications. Students may not double-major within the School of Journalism and Telecommunications. University requirements for a double major stipulate that each major be in a separate department (see Academic Requirements section of this Bulletin). No student may take more than 40 hours within the School to complete a degree.

Scholarships and Financial Aid

The College of Communications and Information Studies has several opportunities for students to obtain scholarship funding. The college awards four scholarships to incoming freshmen and two scholarships each to rising juniors and seniors each academic year. The School of Journalism and Telecommunications awards nearly $35,000 in aid from various scholarship funds annually. The Department of Communication also has funding available for students. Generally, the deadline for scholarship applications is early in the spring semester to award funding for the following academic year. For specific information on scholarships, contact the department office, or the Office of Student Services in 105 Grehan Building.

“Home. That’s what it feels like walking into the Grehan Building every day. The School of Communications and Information Studies welcomes all students. Whether you’re a freshman, transfer student or just confused about where your college career will lead you, the faculty and staff make you feel welcome. Transferring to UK from another school and state was overwhelming. Decisions were to be made. The school was the first to contact me with a warm acceptance letter. I felt wanted and needed. That was all it took for me to make the right decision. Three years later, I know I can walk into the Grehan building, even though I no longer have classes there, and see smiling faces greeting and assisting me with my every need. No matter who you are, professors, advisers and staff members know your name, or will know your name by the end of the day, and that’s comforting. Inspired to be a leader in the community by my colleagues and friends here has led me to teach others of the many great things the school does for all. As an Ambassador and Journalism student, my character has truly been touched by the wonderful people that put their lives into shaping the lives of all students, not just the ones that belong to their own program. We’re family. Here, it’s not about competition, it’s about comfort, and walking up those gorgeous spiral staircases will lead you to your rightful destination.”

– Alyson Goff
Journalism
2004–2007

ADMISSION POLICY

Admission to the University is sufficient for admission to the College of Communications and Information Studies as a premajor for students who have completed less than 45 semester hours. An application must be filed with the college in order for a student to be considered for admission as a premajor or major. However, admission as a premajor does not guarantee admission as a major in one of the degree programs in the College of Communications and Information Studies. In general, admission as a major depends upon the qualifications and preparation of the applicant, as well as the availability of resources for maintaining quality instruction. Additionally, depending on the timing of admission into the major program, students may not have access to major classes until subsequent semesters.

Upper-division admission into a degree program is necessary in order to be granted a baccalaureate degree from the College of Communications and Information Studies.

Transfer Students

The School of Journalism and Telecommunications is accredited by the Accrediting Council on Education in Journalism and Mass Communications (ACEJMC). Under
ACEJMC guidelines, no more than 12 hours of journalism and mass communications courses from a student’s previous institution(s) may be counted toward a degree in journalism, integrated strategic communication or telecommunications at the University of Kentucky.

Admission to Degree Programs

In order to be admitted to any of the four undergraduate majors (communication, integrated strategic communication, journalism, and telecommunications) offered by the College of Communications and Information Studies, an applicant must fulfill the following requirements:

1. Enrollment in the University of Kentucky (Students are considered for acceptance by the college only after acceptance by the University);
2. Completion of 45 semester hours of course work;
3. Minimum of 2.6 cumulative grade-point average;
4. Completion of premajor requirements of the program to which application is made. Students must attain a minimum grade-point average of 3.0 on all premajor courses*;
5. Completion of the University Studies Program requirements I (Math), II (Foreign Language), III (Inference), IV (Written Communication) and VII (Social Sciences), plus six more hours from VI (Natural Sciences) and/or VIII (Humanities);
6. Submission of an application form.

*For the journalism premajor requirements, the student’s grade in JOU 204 counts double in figuring the premajor grade-point average.

No student will be allowed to test out of any Journalism, Integrated Strategic Communication, or Telecommunication course. A student taking a similar course from another institution would still be allowed credit should the course meet criteria similar to the University of Kentucky course.

Students meeting these requirements will be designated as majors or as students with upper-division standing in the program to which admission is granted. Any student not meeting one or more of these requirements may be granted premajor status.

In the admission considerations, when personal, academic, professional, or intellectual circumstances tend to discount lower academic scores, admission may be granted if there is other persuasive evidence of both the capability and motivation to undertake successfully a program in the College of Communications and Information Studies.

Annually, the College of Communications and Information Studies faculty will review the minimum standards required for admission to the college. Any change in requirements will be implemented at the beginning of the academic year (fall semester) and will be in effect for the entire academic year. If the standards are to be changed, the Dean of the College of Communications and Information Studies will submit the proposed change by February 1 to the University Senate Council for approval, with prior circulation to the University deans and directors.

Admissions Process

Applications from students outside the University of Kentucky seeking admission to the College of Communications and Information Studies, whether for lower-division or upper-division status, must be received by the University of Kentucky Admissions Office no later than April 1 (for summer sessions), August 1 (for fall semester) and December 1 (for spring semester).

Students enrolled in other UK colleges on campus may apply for admission during the first week of fall and spring semesters, or prior to the priority registration period. The appropriate deadlines are listed in the University calendar as approved times to change majors.

Each applicant bears the responsibility to see that the application contains all the requested materials.

Automatic acceptance: Assuming all else is in order, applicants with a 2.6 or above undergraduate grade-point average will be accepted. Once accepted, each student will be assigned a major advisor by the appropriate department office.

Admission based upon departmental review: Students who do not meet one or more of the requirements for admission, but who feel that this is due to extenuating personal, academic, professional, or intellectual circumstances, must describe these circumstances in detail in a separate letter of appeal. These circumstances will be considered by the Admissions Committee of the appropriate program. The applicant will be informed in writing of the committee’s decision, which will also be forwarded to the college’s Office of Undergraduate Studies.

Enrollment in Upper Division Courses

Enrollment in College of Communications and Information Studies courses numbered 300-599 will be limited in order of priority to:

1. majors and minors in College of Communications and Information Studies degree programs;
2. non-College of Communications and Information Studies students who are registered for specific programs requiring College of Communications and Information Studies courses;
3. other students or categories of students with the express permission of the department offering the course (departments may choose to declare certain courses as open enrollment courses).

GRADUATION REQUIREMENTS

To earn either the Bachelor of Arts or the Bachelor of Science degree in the College of Communications and Information Studies, each student must (1) complete 120 hours of course work (excluding courses lower than the 100 level, courses with an R designation, physical education service courses, and/or EXP 396 credits) with a grade-point average of at least 2.0 and (2) complete at least 42 hours in upper division courses (300 or above). No more than 60 hours may be taken within the college.

Other requirements include University Studies, premajor requirements, field of concentration (24-27 hours of major work and 15-18 hours of cognate courses earned outside the college as defined by the units), and a minimum of six hours of free electives.

Bachelor of Arts Degree Requirements

Students who pursue the B.A. within the College of Communications and Information Studies must fulfill the following requirements.

University Studies: Students must complete all areas of the University Studies Program. (See University Studies Program section in this Bulletin for a detailed explanation of requirements.)

College B.A. Requirements

1. Language. Complete one of the following sequences:
   - Option A: Successful completion of the fourth college semester of one foreign language. (Note: This may be accomplished by scoring at this level on a placement test for previous work in the foreign language.)
   - Option B: Complete the University Studies Requirements in a foreign language and a set of two courses dealing with the nature and structure of language, language behavior, or comparative languages. This set shall be comprised of one course from Group I below, and one course from Group II.

   (Courses counted as meeting this option may not be counted in the major or field of concentration.)

   Group I: LIN/ENG 211.
   - Group II: ENG 210, ENG/LIN 212, ENG/LIN 310, LIN 317, LIN 318, ANT/LIN 319, ENG/LIN 512, ANT/ENG/LIN 515, ANT/ENG/LIN 516, LIN 517.

2. Statistics. Complete one course in statistics (e.g., STA 200, 291, 370)

Major Requirements

Students must complete the departmental requirements for one of the four majors (communication, integrated strategic communication, journalism, and telecommunications).

Subtotal: College B.A. Hours .......................... 15

Bachelor of Science Degree Requirements

Students who pursue the B.S. within the College of Communications and Information Studies must fulfill the following requirements:

University Studies: Students must complete all areas of the University Studies Program. (See University Studies Program section in this Bulletin for a detailed explanation of requirements.)

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>College B.A.</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td></td>
</tr>
<tr>
<td>Statistics</td>
<td></td>
</tr>
<tr>
<td>Major</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>
College B.S. Requirements

1. Mathematics, statistics and computer science: Complete nine credits in mathematics and/or computer sciences beyond the University Studies requirement. At least three hours must be in statistics.

2. Science Courses. Complete a minimum of 60 hours of science courses, with not more than 12 hours within the College of Communications and Information Studies. These courses must be approved by an advisor in the College of Communications and Information Studies and may be from the areas of mathematics, statistics, computer science, physical sciences, biological sciences, social and behavioral sciences, as well as from appropriate professional fields.

Subtotal: College B.S. Hours ............... 60

Academic Advising

Premajor (freshman and sophomore) advis- ing in the College of Communications and Information Studies is under the jurisdiction of the Office of Student Services, 105 Grehan Building. Premajor advisors are Cathy Hunt, Director of Student Services, and Mimi Halley, Associate Director of Student Services. Either can be reached at (859) 257-4839.

During advance registration periods, the college will advise premajors through individual advising sessions with college and department staff. Between advance registration periods, including registration at the beginning of each term, one faculty or staff member from each academic unit will be available to advise premajors.

When students are admitted to the upper-division of the college, they are assigned a faculty advisor from their major program.

B.S. or B.A. with a major in COMMUNICATION

The major in communication provides students with the knowledge and skills necessary to design, manage, and evaluate communication processes involving individuals, groups, and the public. Graduates develop strong oral, written, and interpersonal communication skills as well as an advanced ability to analyze and critique messages, behaviors, and media.

Majors typically plan their upper-division course work around four identified career paths: corporate communication, health communication, interpersonal relationships, and mass communication. Students also can tailor their own unique program of study to meet specific needs. Careful planning with the student’s advisor is necessary.

Communication majors are encouraged to participate in educational activities beyond regular course offerings. The department has an excellent internship program which offers the opportunity for work with employers in corporate, government, and public service agencies. In addition, students may elect to do independent study work with individual faculty on special topics or projects. All majors are encouraged to participate in a variety of student organizations providing extracurricular activities designed to enhance the academic experience and career opportunities. For students who qualify, the department sponsors an Honors Society.

Degree Requirements

Each student completes the following:

College Requirements

See “College B.A. Requirements” or “College B.S. Requirements” on pages 151-152.

University Studies Requirements

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Inference – Logic

Meet USP requirement. A statistics course is required in the premajor.

Social Sciences

Meet USP requirement. COM 101 is required in the premajor.

Premajor Requirements

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 101 Introduction to Communications 3</td>
</tr>
<tr>
<td>COM 181 Basic Public Speaking or COM 287 Persuasive Speaking 3</td>
</tr>
<tr>
<td>COM 252 Introduction to Interpersonal Communication or COM 281 Communication in Small Groups 3</td>
</tr>
<tr>
<td>COM 249 Mass Media and Mass Culture 3</td>
</tr>
</tbody>
</table>

*Any 3-credit course in statistics, such as STA 200 or STA 291

Subtotal: Premajor Hours ............... 15

Major Requirements

<table>
<thead>
<tr>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 351 Introduction to Communication Theory 3</td>
</tr>
<tr>
<td>COM 365 Introduction to Communication Research Methods 3</td>
</tr>
</tbody>
</table>

Six credits from the following:

| 3 |
| COM 249 Mass Media and Mass Culture |
| COM 281 Communication in Small Groups |
| COM 325 Introduction to Organizational Communication |

Fifteen additional credits of COM courses at the 300-level or above, of which at least nine credits must be at the 400- and/or 500-level.

Cognate (15 hours)

Students must complete fifteen hours in courses related to a Career Path (exclusive of COM courses) at the 300-level or above, as approved by student’s academic advisor.

Subtotal: Major Hours ............... 42

TOTAL HOURS: ................... minimum of 120

Suggested Career Paths

Corporate Communication

Recommended COM Electives

| 3 |
| COM 325 Introduction to Organizational Communication |
| COM 452 Studies in Interpersonal Communication |
| COM 525 Organizational Communication |

COM 482 Studies in Persuasion 3
COM 581 Studies in Small Group Communication 3
COM 399 Internship in Communication 3

Cognate Area

Courses in sociology, marketing, management, journalism and telecommunications are often chosen for this cognate.

Health Communication

Recommended COM Electives

| 3 |
| COM 325 Introduction to Organizational Communication |
| COM 452 Studies in Interpersonal Communication |
| COM 525 Organizational Communication |
| COM 449 Social Processes and Effects of Mass Communication |

COM 482 Studies in Persuasion 3
COM 571 Health Communication 3
COM 399 Internship in Communication 3

Cognate Area

Courses in sociology, psychology, behavioral science, philosophy, journalism and telecommunications, marketing and management are often chosen for this cognate.

Interpersonal Communication

Recommended COM Electives

| 3 |
| COM 350 Language and Communication |
| COM 452 Studies in Interpersonal Communication |
| COM 462 Intercultural Communication |
| COM 482 Studies in Persuasion |
| COM 581 Studies in Small Group Communication |
| COM 399 Internship in Communication |

Cognate Area

Courses in sociology, psychology, family studies, journalism and telecommunications are often chosen for this cognate.

Mass Communication

Recommended COM Electives

| 3 |
| COM 350 Language and Communication |
| COM 449 Social Processes and Effects of Mass Communication |
| COM 453 Mass Communication and Social Issues |
| COM 482 Studies in Persuasion |
| COM 399 Internship in Communication |

Cognate Area

Courses in sociology, political science, journalism and telecommunications, marketing and management are often chosen for this cognate.

Minor in Communication

Any student wishing to minor in communication must meet college selective admission requirements (45 credits completed, 30 credits in USP courses, COM 101 and have a 2.6 cumulative grade-point average). The student must file an application for the minor in the Department of Communication Office and have approval from the department chair for COM courses selected to complete the minor.

| 3 |
| COM 101 Introduction to Communications |
| COM 181 Basic Public Speaking or COM 287 Persuasive Speaking |

Three courses (nine hours) from the following:

| 3 |
| COM 249 Mass Media and Mass Culture |
| COM 281 Communication in Small Groups |
| COM 325 Introduction to Organizational Communication |
| COM 525 Language and Communication |
4. Three courses (nine hours) from COM courses at the 400-level or above.

**B.S. or B.A. with a major in INTEGRATED STRATEGIC COMMUNICATION**

The Integrated Strategic Communication major offers students professional preparation for careers in the allied areas of advertising, public relations, and direct response communication. Through course work, students develop conceptual command of these allied areas and also build expertise in one area through the PATH option they select. The major stresses a strategic approach to communication initiatives and is designed to build analytical and critical thinking skills as well as writing and presentation skills.

ISC graduates enjoy highly diverse career destinations. Agencies specializing in advertising, public relations, and direct response along with the media and communication technology industries, corporations, nonprofit organizations, and regulatory/consumer protection agencies need employees who have the skills developed by the ISC graduate.

ISC students are encouraged to expand their course work with activities unique to the major. GREHAN Associates is a student-run full-service communications agency where students meet clients’ advertising, public relations, and direct response needs. The American Advertising Federation and Public Relations Student Society of America chapters offer both leadership and networking opportunities. A dynamic, professionally oriented internship program insures that students gain hands-on experience with communications, government, or nonprofit agencies or with corporations or the media. Students are also encouraged to work with The Kentuckian, the Kernel, WRFL and WUKY.

**Degree Requirements**

Each student completes the following:

**College Requirements**

See “College B.A. Requirements” or “College B.S. Requirements” on pages 151-152.

**University Studies Requirements**

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

**Inference - Logic**

PHI 120 Introductory Logic ......................... 3

STA 200 Statistics: A Force in Human Judgment 3

Recommended sequence. A statistics course is required in the premajor.

**Social Sciences**

PSY 100 Introduction to Psychology ............... 4

plus any other course listed in University Studies

Program Social Sciences area .............................. 3

PSY 100 is required in the premajor.

**Premajor Requirements**

*PSY 100 Introduction to Psychology ............... 4

ISC 161 Introduction to Integrated

Strategic Communication ............................... 3

ISC 261 Strategic Planning and Writing ............. 3

or

JOU 204 Writing for the Mass Media ............... 3

*Any 3-credit course in statistics, such as

STA 200 or STA 291 ............................... 3

**Subtotal: Premajor Hours .................. 13**

**Major Requirements**

ISC 311 Ethics and the Strategic Communicator ...... 1

ISC 321 Research Methods for the Integrated

Strategic Communication Professional ............... 3

JAT 399 Internship (Subtitle required) ............. 3

plus, complete one of the following two-course PATHS:

**Creative Path**

ISC 331 Advertising Creative Strategy

and Execution I ......................................... 3

ISC 431 Advertising Creative Strategy

and Execution II ........................................ 3

**Public Relations Path**

ISC 341 Strategic Public Relations ................. 3

ISC 441 Case Studies in Public Relations .......... 3

**ISC Account Management Path**

ISC 351 ISC Account Management .................. 3

ISC 451 Integrated Strategic Media Management ... 3

**Direct Response Path**

ISC 361 Direct Response Targeting: Media and

Database Management .............................. 3

ISC 461 Direct Response Message Strategies .......... 3

**Portfolio**

Portfolio required for graduation.

**Capstone Requirement**

ISC 491 Integrated Strategic Communication

Campaigns ........................................... 3

**Major Electives**

Nine hours of 300+ level undergraduate courses offered in the School of Journalism and Telecommunications. ISC majors are expected to work with their academic advisor to build a program of electives that supports and extends the courses in the Major PATH.

**Field of Concentration**

MKT 300 Marketing Management .................... 3

A 300+ level course in the Department of Philosophy dealing with social or professional ethics, such as PHI 332.

Plus, completion of an official UK minor from any area outside the School of Journalism and Telecommunications.

**TOTAL HOURS: minimum of 120**

Note: Of a student’s total course work for a bachelor’s degree, 80 of the 120 hours required for graduation must be in courses other than professional media-based communications. Accreditation standards require that (of these 80 hours) at least 65 semester hours be in basic liberal arts and sciences.

**B.S. or B.A. with a major in JOURNALISM**

The journalism major prepares students for leadership roles in rapidly changing media by requiring a strong core of journalism courses within the rich context of a liberal arts education. Courses are designed to foster analytical and critical thinking skills and to teach students to communicate effectively with a mass audience.

Founded in 1914, the journalism program has full national accreditation by the Accrediting Council on Education in Journalism and Mass Communications. Alumni include Pulitzer Prize winners, Nieman fellows and nationally known journalists.

Journalism majors learn about media law, ethics and history, and about the media’s role in an increasingly diverse society. The program emphasizes hands-on learning. Students select either a print or electronic emphasis in their professional skills courses. Majors choosing a print emphasis have the opportunity to write for a daily newspaper. Students who select the electronic track gain on-air experience at the university radio station and report, anchor, videotape and produce a newscast aired on a local cable channel.

Graduates are prepared for jobs as reporters and editors for print, broadcast and online media, and for positions as assignment editors, producers, managing editors, publishers and new media entrepreneurs. Courses are also offered for students interested in specialized careers such as sports reporting, business writing, arts criticism or graphic design.

All majors are encouraged to supplement their course work with media experience at the *Kentucky Kernel*, the independent daily student newspaper; the *Kentuckian*, the student yearbook; WUKY, the university’s public radio station, or WRFL, the student-run radio station. In addition, students are expected to take advantage of the school’s internship and job placement programs.

**Degree Requirements**

Each student completes the following:

**College Requirements**

See “College B.A. Requirements” or “College B.S. Requirements” on pages 151-152.

**University Studies Requirements**

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

**Inference - Logic**

PHI 120 Introductory Logic .......................... 3

STA 200 Statistics: A Force in Human Judgment 3

Recommended sequence. A statistics course is required in the premajor.
Social Sciences
PS 101 American Government or PS 235 World Politics ........................................3
plus any other course listed in University Studies Program Social Sciences area ........3
A political science course is required in the premajor.

Premajor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 101 Introduction to Journalism</td>
<td>3</td>
</tr>
<tr>
<td>JOU 204 Writing for the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>*Any political science course</td>
<td>3</td>
</tr>
</tbody>
</table>

Subtotal: Premajor Hours ........................................9

Core Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 531 Media Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>plus three hours from conceptual courses such as the following:</td>
<td></td>
</tr>
<tr>
<td>JOU 455 Ethics Media and Diversity</td>
<td>3</td>
</tr>
<tr>
<td>JOU 532 Ethics of Journalism and Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>JOU 535 History of Journalism</td>
<td>3</td>
</tr>
</tbody>
</table>

Options
One of the following options:

Print
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 301 News Reporting</td>
<td>3</td>
</tr>
<tr>
<td>JOU 303 News Editing</td>
<td>3</td>
</tr>
<tr>
<td>JOU 410 Publications Production</td>
<td>3</td>
</tr>
</tbody>
</table>

Broadcast
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOU 302 Radio and TV News Reporting</td>
<td>3</td>
</tr>
<tr>
<td>JOU 304 Broadcast News Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>JOU 404 Advanced TV News: JAT News</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Electives
Nine hours of upper division electives in JOU, ISC or TEL, including three hours from reporting/writing courses approved by student’s advisor.

Portfolio
Portfolio required for graduation.

Field of Concentration
Breadth will be ensured in students’ programs by at least 18 credit hours of upper division courses taken outside the School of Journalism and Telecommunications. These courses are chosen from areas such as economics, philosophy, history, languages, literature, political science, psychology, sociology, or the sciences. These 18 hours should involve concentrated study in one field. This does not mean that all such courses must be in a single department, but they should be from the above-discussed areas such as “international relations,” “American government,” or “political behavior.”

Subtotal: Major Hours ........................................42

TOTAL HOURS: .................. minimum of 120

Note: Of a student’s total course work for a bachelor’s degree, 80 of the 120 hours required for graduation must be in courses other than journalism or mass communications. (Accreditation standards require at least 65 semester hours in basic liberal arts and sciences.)

Degree Requirements
Each student completes the following:

College Requirements
See “College B.A. Requirements” or “College B.S. Requirements” on pages 151-152.

University Studies Requirements
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 120 Introductory Logic</td>
<td>3</td>
</tr>
<tr>
<td>STA 200 Statistics: A Force in Human Judgment</td>
<td>3</td>
</tr>
</tbody>
</table>

Recommended sequence: A statistics course is required in the premajor.

Premajor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEL 101 Telecommunications I: Mass Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>TEL 201 Telecommunications II: Interactive Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 101 Introduction to Computing I</td>
<td>3</td>
</tr>
<tr>
<td>*Any 3-credit course in statistics, such as STA 200 or STA 291</td>
<td>3</td>
</tr>
</tbody>
</table>

Subtotal: Premajor Hours ........................................12

Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEL 300 Telecommunications Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>TEL 310 Telecommunications Policy and Regulation</td>
<td>3</td>
</tr>
<tr>
<td>JAT 399 Internship (Subtitle required)</td>
<td>3</td>
</tr>
</tbody>
</table>

plus 18 hours, with a minimum of nine hours in conceptual courses, from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEL 319 World Media Systems</td>
<td>3</td>
</tr>
<tr>
<td>TEL 355 Communication and Information Systems in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>TEL 390 Special Topics in Telecommunications Production (Subtitle required)</td>
<td>3</td>
</tr>
<tr>
<td>JAT 395 Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>TEL 420 Electronic Media Criticism</td>
<td>3</td>
</tr>
<tr>
<td>TEL 453 Mass Communication and Social Issues</td>
<td>3</td>
</tr>
<tr>
<td>TEL 482 Electronic Media Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>TEL 504 Media Organizations</td>
<td>3</td>
</tr>
<tr>
<td>TEL 510 Media Economics</td>
<td>3</td>
</tr>
<tr>
<td>TEL 520 Social Effects of the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>TEL 525 Theory of Multimedia</td>
<td>3</td>
</tr>
<tr>
<td>TEL 530 Proseminar in Telecommunications</td>
<td>3</td>
</tr>
<tr>
<td>TEL 555 Cyberspace and Communication</td>
<td>3</td>
</tr>
<tr>
<td>TEL 590 Special Topics in Media Studies (Subtitle required)</td>
<td>3</td>
</tr>
</tbody>
</table>

Application Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEL 312 Video Production I</td>
<td>3</td>
</tr>
<tr>
<td>TEL 322 Multimedia I</td>
<td>3</td>
</tr>
<tr>
<td>TEL 412 Video Production II</td>
<td>3</td>
</tr>
<tr>
<td>TEL 432 Audio Production</td>
<td>3</td>
</tr>
<tr>
<td>TEL 442 On-Air Performance</td>
<td>3</td>
</tr>
</tbody>
</table>

Cognate Area:
All majors must fulfill the field of concentration or cognate area requirement by taking a minimum of 15 hours outside the major at or above the 300 level in courses related to their telecommunications interest.

Subtotal: Major Hours ........................................42

TOTAL HOURS: .................. minimum of 120

Note: Of a student’s total course work for a bachelor’s degree, 80 of the 120 hours required for graduation must be in courses other than professional media-based communications. Accreditation standards require that (of these 80 hours) at least 65 semester hours be in basic liberal arts and sciences.

Minor in Telecommunications
Any student wishing to minor in telecommunications should file an application with the School of Journalism and Telecommunications after meeting the following requirements:

Complete either TEL 101 or TEL 201
Complete 45 hours of university course work with a cumulative grade-point average of 2.6

Students cannot register for upper-level telecommunications courses until they have met the above requirements and have been accepted into the telecommunications minor program. After a student has been accepted as a minor, he or she will be assigned a faculty advisor.

The minor in telecommunications requires a minimum of 21 hours to include the following:

1. TEL 101 Telecommunications I: Mass Communication Systems            | 3     |
| TEL 201 Telecommunications II: Interactive Communication Systems     | 3     |
| CS 101 Introduction to Computing I                                   | 3     |
2. Complete one of the following courses:
   TEL 300 Telecommunications Research Methods . 3
   TEL 310 Telecommunications Policy
   and Regulation ............................................. 3

3. Nine additional hours of elective course work (with a minimum of 3 hours in conceptual course work).

   Only one enrollment in JAT 399, Internship (Subtitle required), will be permitted.

   Students may take only six hours from the following courses: TEL 312, 412, 432, 442; JAT 399.

   Note: Students should recognize that most upper-division telecommunications courses have specific prerequisite courses that must be taken and plan their programs accordingly.

---

M.S. in LIBRARY SCIENCE

The School of Library and Information Science began in 1933 as the Department of Library Science within the College of Arts and Sciences. Sixty years later, in 1993, the College of Library and Information Science merged with the College of Communications to form the College of Communications and Information Studies. The new college consists of a School of Library and Information Science, a School of Journalism and Telecommunications, and a Department of Communication. The school offers one of 58 master’s programs in library and information science in the United States and Canada that are accredited by the American Library Association.

The School of Library and Information Science provides students with the basic knowledge and skills required to function effectively in beginning professional positions in various types of libraries and information-providing agencies. It contributes to the advancement of both the theory and practice of librarianship through systematic and continuing research and publication and provides continuing public service to individuals, libraries, professional organizations and related institutions to the end of promoting effective and efficient information services.

The School of Library and Information Science maintains flexibility and openness to change through the participation of faculty, students, and administration in the decision-making process. The student body of about 230 has its own organization, LISSO, the Library and Information Science Student Organization, which represents students in school deliberations. Students sit on committees and share significantly in the development of the school. The student organization participates in orientation programs, publishes a newsletter, and sponsors social activities throughout the year. The diversity of the students, in terms of geography and interests and backgrounds, helps to create an atmosphere in which change and improvement in the program can take place.

The libraries of the University, William T. Young, M.I. King and the branch libraries, constitute the major “laboratory” facility for library and information science students. They are supplemented by other libraries in the area including those at the Lexington Theological Seminary, the Veterans Administration Medical Center, the Lexington Public Library, several nearby public libraries and the State Department for Libraries and Archives in Frankfort.

Accreditation

The master’s program in library and information science is accredited by the American Library Association.

Graduate Program in Library and Information Science

The University of Kentucky grants the following degrees in the School of Library and Information Science:

- Master of Science in Library Science
- Master of Arts

ADMISSION REQUIREMENTS AND PROCEDURES FOR GRADUATE STUDY

The School of Library and Information Science offers graduate degrees only. For complete information on the M.A. and the M.S.L.S. degree programs and admissions procedures, consult The Graduate School Bulletin and the School of Library and Information Science Bulletin. The former can be found at www.rgs.uky.edu/gs/ and the latter can be found at www.uky.edu/CommInfoStudies/SLIS.

Admission

The admissions philosophy of the school is to admit students who are capable of satisfactorily academic performance and who show promise of being able to function as competent and effective librarians and information managers. A basic requirement for admission is an undergraduate degree in any discipline (from an accredited institution) with a grade-point average of at least 2.75 on a 4.00 scale. In addition the applicant should present Graduate Record Examination scores, (a) on the General Test taken before October 1, 2002, of 450 or higher on the verbal section and of 400 or higher on the quantitative section or on the analytical section; (b) on the General Test taken on or after October 1, 2002, of 450 or higher on the verbal section and of 400 or higher on the quantitative section or 4.0 on the analytical writing section.

While these admission standards are important, the school does try to remain flexible to account for individual developmental differences and strengths.

There are no specific library science prerequisites for admission into the School of Library and Information Science. Students are urged not to take a minor in library science as undergraduates but to concentrate on other subject area majors and minors and obtain a broad liberal arts background. Electives in computer science are often very helpful.

Application must be made both to the School of Library and Information Science and The Graduate School. For information about applying to The Graduate School, go to: www.research.uky.edu/gs/gsprospect.html. For information about applying to the School of Library and Information Science, go to: www.uky.edu/CIS/SLIS/admissions.htm. An applicant to the school must submit all materials by the deadlines set by the school, which are included with the information at Admissions. Applicants may enter the program in the fall or summer, but not in the spring. Send questions or inquiries to: ukslis@uky.edu.

Previous students must apply for readmission if they were not enrolled during the semester prior to that for which admittance is sought.

Financial Aid

Financial aid and scholarship information specific to library and information science is limited to graduate students and is too detailed and changes too often to warrant inclusion in this Bulletin. Information is available in the school Bulletin, which can be found at the school’s Web site.

Advising

Upon admission to the master’s program, students are assigned a faculty advisor. Advisor assignments are based, when possible, on student interest and preference.

University of Kentucky Undergraduates

The School of Library and Information Science does not offer any formal program of study on the undergraduate level. Students who are registered as undergraduates (juniors or seniors) at the University of Kentucky may take courses at the 500 level as a general minor or as meeting the requirements for certification in Kentucky as a school librarian.

GRADUATE PROGRAMS

The College of Communications and Information Studies offers the following graduate degrees: (1) Master of Arts in Communication, (2) Ph.D. in Communication, (3) Master of Science in Library Science, and (4) Master of Arts (Library Science). Additional information may be obtained from the Associate Dean for Graduate Studies for the College of Communications and Information Studies and from The Graduate School Bulletin.
Sharon P. Turner, D.M.D., J.D., is Dean of the College of Dentistry.

The College of Dentistry offers the Doctor of Dental Medicine (D.M.D.) degree and six post-doctoral programs. The major College mission is to educate and prepare dental practitioners to meet the oral health needs of the people of the Commonwealth of Kentucky and beyond. The College is accredited by the Commission on Dental Accreditation.

For further information on the D.M.D. and post-doctoral programs, refer to the College of Dentistry Bulletin at: www.mc.uky.edu/Dentistry/.

Admission – Doctor of Dental Medicine (D.M.D.)

The College seeks to enroll students whose backgrounds, personalities, and motivations indicate that they will make capable future practitioners. The College gives preference to qualified applicants who are residents of Kentucky. However, highly qualified out-of-state applicants are considered each year and such candidates are encouraged to apply.

The College will consider for admission any applicant who demonstrates the ability to perform or to learn to perform, the skills listed in the College’s Technical Standards policy. The specific standards are included in the College Bulletin and Student Handbook. Applicants are not required to disclose the nature of any disability, but an applicant with questions about these technical requirements is strongly encouraged to discuss the issue with the Assistant Dean of Admissions and Student Affairs. If appropriate, and upon the request of the applicant, student or faculty, reasonable accommodations for a disability will be provided.

Predental Preparation

The College strongly recommends that applicants gain a broad liberal arts education with a solid foundation in the sciences. Information on prerequisite course work may be obtained from the College’s Office of Admissions and Student Affairs. Gaining admission is a competitive process and completing a baccalaureate degree prior to matriculation is an expectation.

Prospective dental students should contact the Office of Admissions and Student Affairs early in their undergraduate careers for guidance. The College will work with students to advise them on ways to become competitive applicants. The College also works closely with the UK Pre-Dentistry Society. For more information, call (859) 323-6071.

Application

The College participates in the American Association of Dental Schools Application Service (AADSAS), a centralized electronic application service. The address is listed below.

AADSAS
1400 K Street NW
Suite 1100
Washington, D.C. 20005
(202) 289-7201
www.aadea.org

Application for admission should be submitted to AADSAS between June 1 and November 1 of the year preceding the fall in which admission is desired. Candidates are advised to complete their applications early since interviews begin in September. Applicants are offered admission beginning December 1 of each year, and those applying near the application deadline are at a disadvantage due to the time required to fully process an application.

Letters of Evaluation

Applicants must submit three evaluation letters from individuals (or a college committee) who know the applicant well and can provide meaningful comments about the applicant’s academic potential, sense of responsibility, social sensitivity, community orientation, and awareness of social problems. Two of the three letters should be from undergraduate faculty.

Dental Admission Test

The Dental Admission Test was developed and adopted by the Council on Dental Education of the American Dental Association (www.ada.org/) as one means of determining an individual’s potential for dentistry. It is a multiple-choice examination that includes the following sections: Survey of Natural Sciences (biology, general chemistry and organic chemistry), Perceptual Ability, Reading Comprehension and Quantitative Reasoning. The Dental Admission Test is administered at Prometric/Sylvan Technology Centers nationwide in a computerized format. The applicant should take the test the first time in the spring of the junior year. Many applicants will take the Dental Admission Test more than once. The college will recognize the highest set of scores.

Direct questions regarding admission or arranging a visit to the college to:

Office of Admissions and Student Affairs
College of Dentistry
D-155 Chandler Medical Center
University of Kentucky
Lexington, KY 40536-0297
(859) 323-6071
www.mc.uky.edu/Dentistry/
e-mail: mlock2@email.uky.edu
The University of Kentucky College of Design is comprised of the School of Architecture, the School of Interior Design, and the Department of Historic Preservation.

The University of Kentucky College of Design was established to create a cohesive culture among the design disciplines on campus. Design professions continue to become increasingly integrated with architects, interior designers, and historic preservationists working together in close collaboration. The College of Design seeks to offer a place where this integration can be fostered early on at the academic level and to create a stimulating environment for the exchange of ideas and perspectives and the free exploration of interdisciplinary connections between various practices of design.

**SCHOOL OF ARCHITECTURE**

Architecture is an act of design, which creates space and structure for human activity and establishes a poetic dialogue between the built domain and its inhabitants. Architecture serves as a durable contextual symbol of the lives of a people, their spirit and aspirations, and their history. The objective of the School of Architecture is to promote in students the development of creative exploration, professional skill, and social awareness that an architect must possess if his or her architecture is to enhance contemporary life and serve as an enduring and valid expression of our culture and time.

**Accreditation**

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) ([www.naab.org](http://www.naab.org)), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Master’s degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

**Degree Programs in Design**

The University of Kentucky grants the following degrees in the College of Design:
- Bachelor of Arts in Architecture
- Bachelor of Arts in Interior Design
- Master of Architecture
- Master of Arts in Interior Design, Merchandising and Textiles (IDMT)
- Master of Historic Preservation

**Architecture Program**

The professional curriculum offered by the School of Architecture is comprised of two consecutively acquired degrees: a four-year Bachelor of Arts in Architecture degree and a two-year Master of Architecture professional degree. This curriculum is commonly referred to by schools of architecture as a 4+2 curriculum. The Master of Architecture degree must be earned in order for a student to continue the process of seeking professional licensure as an architect. There is an opportunity for students who hold a NAAB-accredited Bachelor of Architecture degree to receive admission with advanced standing to the Master of Architecture program.

“An education in design is one of the best tracks to becoming a well-rounded individual. By introducing me to a range of cultures, disciplines, and methods of inquiry, the College of Design and the Honors Program constantly bring me face to face with myself so that I may investigate my role in society. This sensitivity to the design process has shown me the importance of remaining a lifelong student of the beautiful things in the world.”

– Matthew Storrie
Bachelor of Architecture 2007

“I believe that design is not simply the synthesis of form and practicality, but a functional interpretation of creativity. My experiences within The School of Interior Design have further ingrained this philosophy by providing a variety of challenges, discoveries, and opportunities. I have not only received the opportunity to develop my skills as a designer and artist, but to investigate other fields of study that will have a profound impact on my career in design.”

– Laura Disney
Interior Design
Class of 2007

**APPLICATION DEADLINES FOR COLLEGE OF DESIGN**

**School of Architecture**

- **Freshmen and Transfer Students** – Application, ACT - March 1
- **Test -** March 8

**Transfer Students from NAAB Architecture Programs**

- **Application, ACT, Test/Portfolio -** April 1

**School of Interior Design**

- **Major in Interior Design Upper division program applicants – Special application, transcript(s), and portfolio -** February 1

The curriculum centers on an intense, design-oriented approach to architecture education. In addition to design studio, students study technical aspects of building technology including building materials and structural systems; the history, theory, and criticism of architecture; and the ethical and professional principles of successful architecture practice. At the graduate level, students pursue studies in specialized professional concentrations such as building design, town design, historic preservation, digital visualization, history and theory, etc.

Admission into the School of Architecture Bachelor of Arts in Architecture program is
regulated through a selective admission procedure both for graduating high school students and for students transferring from another collegiate institution or major.

The most significant part of the admission procedure consists of the Architecture Admission Test, which is designed to identify an applicant’s innate ability in regard to spatial perception, visual memory, creativity, and logic. The Architecture Admission Test is typically administered on the first Saturday of every March for admission to the fall semester beginning in August of the same year. Candidates who live more than 200 miles from Lexington, and who would find it difficult to take the test on campus, may apply (additional form required) to take the test in their own locality.

Applications for admission to the UK College of Design School of Architecture may be obtained from:

**Admission Committee**
**School of Architecture**
**UK College of Design**
117 Pence Hall
University of Kentucky
Lexington, KY 40506-0041

Applications are also available on the College of Design Web site at: www.uky.edu/Design/architecture.htm.

Candidates not currently enrolled at the University of Kentucky must apply separately to the University in addition to submission of the test application for the School of Architecture.

**Admissions Procedures**

**Freshman candidates** are required to file a University application, with necessary supporting documents, with the Office of Undergraduate Admission and University Registrar by March 1, 2008, for 2008 Fall Semester admission.

Candidates will be admitted in order of priority on the basis of the following criteria:

1. A potential for general academic achievement as indicated by the high school grade-point average and national college admission test scores (ACT or SAT).

As a rule, freshmen applying to the School of Architecture must meet the minimum academic standards required for all freshmen applicants for admission to the University. However, if the Architecture Admission Committee finds clear indications of probable success in architecture from its review of the further evidence pertaining to a candidate who does not meet these minimum criteria, an exception may be made to this rule. Any such exception would require formal recommendation of the School of Architecture Admission Committee and approval of the Director of Admissions.

For fall admission, applicants must register for and take the American College Test (ACT) or the Scholastic Aptitude Test (SAT) on or before the December 2007 test date.

2. The probability of success in a professional program in architecture as predicted by “The Architecture Admission Test.”

3. Comparative measures of aptitude and motivation derived by the Admission Committee from supplementary tests (e.g., a home project assignment and/or a controlled test taken by the candidate on the same day and at the same place as test in 2. above) and, in cases of uncertainty and circumstances permitting, personal interview.

These tests will be administered by the School of Architecture Admission Committee in the College of Design, Pence Hall, on March 8, 2008, for 2008 Fall Semester applicants.

Arrangements can be made for those candidates who are unable to attend the examination on campus, for test administration under proper controls prior to March 8, 2008, at their local educational facility. Requests, which state the need for a local examination and the name and address of the individual who will administer the controlled test, should be made in writing to the School of Architecture Admission Committee on or before February 15 to ensure that the results of the examination are received by the committee by March 8, 2008.

**Transfer candidates** from educational programs other than those in architecture will be required to observe the same application deadlines and testing procedures (when applicable) as those set out above for freshmen. Please note that this deadline is earlier than that for general admission of transfer students to the University.

Candidates will be considered in order of priority on the basis of the following criteria:

1. The indication of general academic performance as reflected by the cumulative collegiate grade-point average, and the indications of specific interests and aptitudes as reflected by grades in certain critical disciplines (e.g., art history, foreign languages, freehand drawing, history of ideas, mathematics, philosophy, social history).

As a rule, the minimum academic standard acceptable to the Admission Committee will be a cumulative grade-point average of 2.0 on a 4.0 scale, or an average of C in all previous college work. However, if the Architecture Admission Committee finds clear indications of probable success in architecture from its review of the further evidence pertaining to a candidate who does not meet these minimum criteria, an exception may be made to this rule. Any such exception would require formal recommendation of the School of Architecture Admission Committee and approval of the Director of Admissions.

2. The probability of success in a professional program in architecture as predicted by “The Architecture Admission Test.” Any applicant who is successful on “The Architecture Admission Test” but who has a university grade-point average of less than 2.0 will not be accepted to begin work in the School of Architecture. However, a one-year deferment of admission may be granted pending grade improvement to at least 2.0. This requirement may be waived by the Dean of the College of Design under extraordinary circumstances.

3. Other indications of their aptitude and motivation as may be available (e.g., a portfolio of work, references, experiences in building construction or related fields).

4. Comparative measures of their aptitude and motivation derived by the Architecture Admission Committee from supplementary tests (e.g., a home project assignment and/or a controlled test taken by the candidate on the same day and at the same place as test in 2. above) and, in certain cases of indecision, and circumstances permitting, personal interviews. Students who have been admitted to and have completed some professional courses within the School of Architecture and have withdrawn from the university for a period of three years or more, or who have not taken professional courses within the School of Architecture but remain in the university for a period of two years or more, may not reenter the program without the consent of the Dean of the College of Design, which would be given only under extraordinary circumstances.

**Transfer candidates** from N.A.A.B. accredited programs in architecture are required to file application with the Office of Undergraduate Admission and University Registrar by April 1, 2008, for 2008 Fall Semester admission. Please note that this deadline is earlier than those for application to the University in general.

Candidates will be considered in order of priority on the basis of the following criteria:

1. The indication of general academic success and success in a professional program in architecture as reflected by the cumulative collegiate grade-point average, and indications of specific aptitude and skill development as reflected by grades in architecture or environmental design courses.

As a rule, the minimum academic standard acceptable to the Admission Committee will be a cumulative grade-point average of 2.0 on a 4.0 scale, or an average of C in all previous college work. However, if the Architecture Admission Committee finds clear indications of probable success in architecture from its review of the further evidence pertaining to a candidate who does not meet these minimum criteria, an exception may be made to this rule. Any such exception would require formal recommendation of the School of Architecture Admission Committee and approval of the Director of the School of Architecture.

2. The probability of success in a professional program in architecture as predicted by a review of their portfolio of work in architec-
ture. The portfolio should be brought or mailed, together with return postage and mailing labels directly to:

Admission Committee  
School of Architecture  
UK College of Design  
117 Pence Hall  
University of Kentucky  
Lexington, KY 40506-0041

3. A review of at least three letters of reference addressed to the Admission Committee from referees such as previous other teachers, architectural practitioners or related professionals for whom the candidate may have worked.

The candidate’s portfolio and letters of reference should be received by the committee by April 1, 2008, for 2008 Fall Semester admission.

4. In cases of uncertainty, and circumstances permitting, personal interview. Based on the above criteria, the Admissions Committee will determine entering placement in the program. This placement may be at a level lower than the applicant had achieved at his or her previous institution.

Scholarships

The College of Design awards scholarships based on merit and need to architecture students throughout the six years of the program, including travel grants for semesters abroad. Scholarships totaling more than $60,000 are awarded annually. Architecture majors from first through sixth years are also eligible for all general University scholarships and financial aid. Architecture students are also employed in the business and student services offices, library, computer lab and workshop of the college, and serve as teaching assistants.

Advising

Advising in the School of Architecture is conducted formally through meetings with each student each semester to review progress in the program and formulate individual curricular plans. The Student Services Office maintains complete records and provides information on admission, class policies, scheduling and scholarships, graduation course registration, and grade issues. Informal advising is an on-going process during the studio and seminar components of the curriculum, where the student-to-teacher ratio is typically 10-12 to 1.

BACHELOR OF ARTS IN ARCHITECTURE

The architecture program at the University of Kentucky has achieved a national reputation for excellence through the commitment of its faculty and the spirit, talents, and work of its students. The architecture program is fully accredited by the National Architectural Accrediting Board (NAAB).

The professional curriculum offered by the School of Architecture is comprised of two consecutively acquired degrees: a four-year Bachelor of Arts in Architecture degree and a two-year Master of Architecture professional degree (a.k.a. a 4+2 curriculum). The Master of Architecture degree must be earned in order for a student to continue the process of seeking professional licensure as an architect.

The professional program consists of an intensive regimen of architecture studio courses as well as courses in the history and theory of architecture, building technology, computer and digital technology, and professional practice. The architecture studio is the foundation of the program. Studios provide a social and curricular framework for the architecture student. In the studio, design problems range from
developing highly abstract ideas into concrete forms to providing architectural solutions for specific problems arising from detailed building programs and defined sites. Representational skills such as drawing, model making, and computer modeling are practiced rigorously as essential skills for design. A secure personal studio workplace is available at all times for all students.

The intensive study of architectural history, theory, and criticism directs students to the historical and cultural contexts of design. An extensive sequence of core history, theory, and criticism courses concludes with a series of seminars with a wide range of topics. Students in these seminars are encouraged to pursue research in areas relative to their individual design interests. A study of building materials begins in first-year studio and evolves into a technical analysis of structural planning and design, materials and methods of construction, and building systems as students advance through the curriculum. Environmental controls for buildings are also investigated to provide an understanding of the complex visual, acoustical, and thermal aspects of designed space. Professional and legal aspects of architecture practice are addressed in a series of electives and seminars including issues relating to professional registration, ethics, and social responsibility.

This broad core of architecture course work is complemented by the University Studies Program. This program is a specific offering of liberal arts and science courses required of all students at the University of Kentucky. Elective hours allow students the flexibility to obtain a minor or undergraduate area of concentration within or outside the architecture program.

CURRICULUM

The School of Architecture in the College of Design administers the program curriculum, and the University of Kentucky Board of Trustees grants degrees. The curriculum consists of 133 credits for the undergraduate degree and 57 credits for the graduate degree for a total of 190 credits in six years.

The curriculum conforms to the following outline:

| I. Undergraduate University Studies requirements | 34 |
| II. Core program requirements | 76 |
| III. Undergraduate elective courses | 23 |
| IV. Graduate core program requirements | 33 |
| V. Advanced elective courses | 15 |
| VI. Master’s Project | 9 |
| TOTAL | 190 |

The above distribution of credit assumes that the University Studies Program Basic Skills requirements in mathematics and a foreign language have already been met prior to admission to the program, an assumption supported by historical student data. It also assumes that the Humanities section is to be met by approved core program courses in the History and Theory of Architecture (ARC 212 and ARC 213).

Graduation Writing Requirement

Students satisfy the Graduation Writing Requirement with ARC 314, required in the Major Requirements.

Graduation Writing Requirement Hours: .3

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BACHELOR OF ARTS IN ARCHITECTURE

(Four-Year Program)

YEAR ONE

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ARC 101 Drawing I: Observational Freehand Drawing</td>
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<tr>
<td>ARC 102 Drawing II: Observational Freehand Drawing</td>
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<tr>
<td>ARC 111 Introduction to History and Theory</td>
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<tr>
<td>ARC 151 Design Studio I</td>
</tr>
<tr>
<td>ENG 104 Writing: An Accelerated Foundational Course</td>
</tr>
<tr>
<td>PHY 151 Introduction to Physics</td>
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YEAR TWO

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<thead>
<tr>
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<tbody>
<tr>
<td>ARC 203 Digital Media Within Architecture</td>
</tr>
<tr>
<td>ARC 212 History and Theory I: 15th-17th Centuries</td>
</tr>
<tr>
<td>ARC 213 History and Theory II: 18th-19th Centuries</td>
</tr>
<tr>
<td>ARC 231 Structural and Material Concepts</td>
</tr>
<tr>
<td>ARC 252 Design Studio II</td>
</tr>
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<td>ARC 253 Design Studio III</td>
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YEAR THREE

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<thead>
<tr>
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<tbody>
<tr>
<td>ARC 314 History and Theory III: 20th Century and Contemporary Architecture</td>
</tr>
<tr>
<td>ARC 315 History and Theory IV: Urban Forms</td>
</tr>
<tr>
<td>ARC 332 Environmental Controls I</td>
</tr>
<tr>
<td>ARC 333 Environmental Controls II</td>
</tr>
<tr>
<td>ARC 354 Design Studio IV</td>
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<tr>
<td>ARC 355 Design Studio V</td>
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YEAR FOUR

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ARC 343 Structural Design and Analysis I</td>
</tr>
<tr>
<td>ARC 345 Materials and Methods of Construction</td>
</tr>
<tr>
<td>ARC 456 Design Studio VI</td>
</tr>
<tr>
<td>ARC 511-515 History and Theory Seminar (only one required)</td>
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<tr>
<td>University Studies requirements</td>
</tr>
<tr>
<td>Electives</td>
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<tr>
<td>TOTAL</td>
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</tbody>
</table>

Off-campus studio is strongly recommended in the fourth year.

Four-Year Total Hours

University Studies requirements | 34 |
Architecture Core requirements | 73 |
Electives | 26 |
Total Undergraduate | 133 |

MASTER OF ARCHITECTURE

(Two-Year Program)

YEAR FIVE

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>ARC 511-515 History and Theory Seminar (only one required)</td>
</tr>
<tr>
<td>ARC 533 Structural Design and Analysis II</td>
</tr>
<tr>
<td>ARC 631 Building Systems Integration</td>
</tr>
<tr>
<td>ARC 641 Professional Practice</td>
</tr>
<tr>
<td>ARC 658 Design Studio VIII</td>
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<td>ARC 659 Design Studio IX</td>
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<td>Elective in Chosen Concentration</td>
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YEAR SIX

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ARC 642 Professional Internship</td>
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SUMMER

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<tbody>
<tr>
<td>ARC 750 Design Studio X (Comprehensive Project)</td>
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<tr>
<td>*ARC Master’s Project in Chosen Concentration</td>
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<tr>
<td>*Elective in Chosen Concentration</td>
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</table>

YEAR SIX

*The curriculum for each graduate concentration is listed on the Web in Appendix B at: http://architecture.uky.edu/curriculumproposalfinal/a/ WebPages/Table_of_Contents.html. A complete list of undergraduate and graduate courses follows on page 12 and ff.

Two-Year Total Hours

Architecture Core requirements | 33 |
Master’s Project | 9 |
Electives in Chosen Concentration | 15 |
Total Graduate | 57 |

For more information about the School of Architecture’s Master of Architecture degree, consult the UK Graduate School Bulletin, or the College of Design Web site at: www.uky.edu/Design/architecture.htm.

SCHOOL OF INTERIOR DESIGN

The dramatic evolution of the interior design profession over the last two decades is reflected in the Interior Design program at UK. The curriculum emphasizes the design, technical, problem-solving, and management skills required to work with allied design professionals and to provide exceptional environments for human use. A series of sequential design studios builds design and teamwork skills while courses in related disciplines expose students to art, architecture, digital media, landscape architecture, and business. This curriculum is fully accredited by the CIDA, Council of Interior Design Accreditation (formerly FIDER).

The School of Interior Design is home to approximately 120 students from Kentucky, the nation, and abroad. The Interior Design program was established in 1973 and received its first accreditation from FIDER in 1981. The School is the premier interior design pro-
gram in the state of Kentucky. Graduates of the program practice design across the United States and have been recognized at the highest level of the profession. The program challenges its students to engage in activities that move the interior design profession forward and that enhance the intellectual, social, and cultural development of design theory, research, and application.

The School of Interior Design prepares students to create poetic environments while addressing built-environment issues associated with influencing the experiential aspects of being in space. Students gain expertise in the elements and principles of design, problem solving, building systems, human issues, functional considerations, scientific and technical processes, and the art of creating space.

Through internships, study abroad experiences, lectures by noted speakers, and field experiences, students are provided an opportunity to interact with regional, national and international design professionals. Graduates from the School of Interior Design pursue careers in a variety of settings including interior design firms, architecture firms, corporations, and public institutions. Students may also pursue graduate post-professional education in specialized areas within the field.

BACHELOR OF ARTS IN INTERIOR DESIGN

In addition to University Studies requirements, Interior Design students must complete the following:

- 16 credit hours of premajor requirements
- 79 credit hours of major/field of concentration requirements
- 9-12 credit hours of professional support electives
- 12-15 credit hours of focused electives
- 6 hours of free electives
- electives required to meet minimum credit hour standard for graduation.

UNDERGRADUATE ADMISSION

Premajor Admission

Students who want to major in Interior Design must first be admitted into the premajor (first year of the five-year program).

Freshman Candidates

1. File a University application with the Office of Undergraduate Admission and the University Registrar by February 1 for fall admission in the year which the student wants to begin the program. For fall admission, applicants must register for and take the American College Test (ACT) or Scholastic Aptitude Test (SAT) on or before the December test date.

2. Apply for premajor admission to the School of Interior Design. The Premajor Admission Application Form is available on line on the college Web site at: www.uky.edu/Design/interiordesignadmissions.html.

3. Write an essay as required by the Premajor Admission Application Form. The essay will require applicants to express the rationale for their interest in the Interior Design profession and what steps they have taken to make an informed decision regarding their choice for a major.

4. The Premajor Admission Application Form with essay must be received on or before February 1 in the year the student wants to begin the program.

Submit application to:

Premajor Admissions
School of Interior Design
117 Pence Hall
University of Kentucky
Lexington, KY 40506-0041

Transfer Students

Transfer candidates from educational programs other than interior design will be required to observe the same application process and deadlines as outlined for premajors.

Please note that the deadline is earlier than that for general admission of transfer students to the University.

Premajor Admission Selection Process

Candidates will be admitted to the premajor in order of priority based on demonstrated potential for academic achievement in the first year of the program as indicated by high school grade-point average, ACT/SAT scores, and the required essay. Additional consideration will be given to the student’s demonstrated participation in extracurricular, service, or work activities that show evidence for potential development of characteristics that will assist them in succeeding in the profession. Acceptance will be on a comparative and competitive basis and limited to the number of students the School of Interior Design is able to accommodate in studio. Notification of acceptance in the premajor will permit registration into ID 171 fall semester of the same year. Admission will not be deferred.

Admission Into the Major

Premajor Students

Admission into the Interior Design major occurs after completing the first and second semester requirements and is dependent upon the qualifications and preparation of the applicant as demonstrated by their portfolio. Since the number of students admitted to the major will be limited beginning with the sophomore-level course work, applicants will be selected on a comparative and competitive basis. To be considered for admission into the interior design major, an applicant must fulfill the following requirements:

1. Make application by April 1 for admission into the Interior Design major for the fall semester of the next academic year. The Major Admission Application Form for the School of Interior Design is available on the college Web site at: www.uky.edu/Design/interiordesignadmissions.html.

Submit application to:

Major Admissions
School of Interior Design
117 Pence Hall
University of Kentucky
Lexington, KY 40506-0041

2. Completed or currently enrolled in all required premajor Interior Design course work, including ARC 111, ID 142, ID 171 and ID 172.

3. Submit for blind review a portfolio of work completed in the freshman-level Interior Design studio courses. Requirements and the submission date for the Portfolio Review for a specific year will be available on the College of Design Web site by December 1 for the following spring review.

Transfer Students with Design Credit

Students who have university credit in design course work from an accredited professional program (CIDA [formerly FIDIER], NAAB, etc.) who want to transfer into the School of Interior Design must make application for admission to the major. The application process includes:

1. File a University application with the Office of Undergraduate Admission and the University Registrar to be received by March 1 for fall admission. Request an official transcript of college course work to be received by University of Kentucky Admissions by April 1. Please note that this deadline is earlier than those for application to the University in general.

2. Apply for admission into the School of Interior Design. The Major Admission Application Form for the school is available on line on the college Web site at: www.uky.edu/Design/interiordesignadmissions.html.

3. Submit a portfolio of student work completed in the previous design program. If the applicant wants the portfolio returned, the portfolio should be submitted with return packaging and mailing labels provided. The School of Interior Design will return the portfolio by COD.

4. Request three letters of reference addressed to the Major Admissions Committee. At least one reference must be submitted from a previous design professor. Other references are the candidate’s choice. These letters of reference must be sealed and signed by the author across the seal.

5. The Major Admission Application Form, portfolio, and three letters of reference should...
be in one package, received by May 1 for fall term admission in the same year, and delivered to:

**Major Admissions**  
**School of Interior Design**  
**117 Pence Hall**  
**University of Kentucky**  
**Lexington, KY 40506-0041**

**Major Admission Selection Process**
Admission into the Interior Design major will be dependent upon the applicant’s qualifications and preparation. Criteria for admission will include the student’s demonstration of success in the following areas: overall GPA; portfolio of required work; and potential for professional aptitude. Since the number of students admitted will be limited, applicants will be examined on a comparative and competitive basis. Candidates will be admitted in order of preference. Preference will be given to students completing the premajor requirements at the University of Kentucky. Admission for a specific semester will not be deferred.

**University Studies Requirements**
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the School of Interior Design, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

**Recommended USP Courses**
- **Math:** MA 109 College Algebra ........................................ 3
- **Inference:** MA 123 Elementary Calculus and Its Applications ... 3
- **Social Sciences:** PSY 100 Introduction to Psychology ............ 4  
  SOC 101 Introduction to Sociology .................................. 3
- **Humanities:** A-H 105 Ancient Through Medieval Art ........... 3
  plus one other humanities course ................................... 3

**Recommended Graduation Writing Requirement**
- ENG 203 Business Writing ............................................. 3

**Premajor Requirements**
- ARC 111 Introduction to History and Theory ..................... 3
- ID 142 History and Theory of Interior Design ................. 3
- ID 171 Interior Design Problem
  - Solving Fundamentals ............................................ 5
  - ID 172 Interior Design Graphics and Theory: Designer as Problem Solver ........................................... 5
  - Subtotal: Premajor hours: ........................................ 16

**Major Requirements**
- ID 272 Interior Design Studio I:  
  - Designer as Artist ................................................ 6
- ID 262 Interior Building Systems ................................ 3
- ID 243 Design Theory in the Modern Era .......................... 3
- ID 274 Interior Design Studio II:  
  - Designer as Humanist ............................................ 5
- ID 263 Introduction to Digital Media ............................ 3
- ID 264 Color Theory .................................................. 3
- ID 234 Research, Behavior and Design Theory ..................... 3
- ID 370 Vertical Studio (first) ..................................... 5

**Professional Support**
- MAT 120 Textiles for Consumers .................................. 3
- MKT 300 Marketing Management ................................... 3
  - plus:
  - With the academic advisor’s approval, the student will choose professional support totalling 9-12 hours selected from art history, history of landscape architecture, architecture, architectural history, art studio or DMT 520 Textiles for Interiors. A total of 6 hours must be at the 300 level or above.
  - **Subtotal: Professional Support:** 9-12

**Focused Electives**
- See “Focused Elective Options” below.
  - **Subtotal: Focused Electives:** 12-15

**Total Minimum Hours Required for Degree**: 166

**Interior Design Undergraduate Program Overview**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Hours</th>
<th>Required for Degree</th>
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<tbody>
<tr>
<td>ID 171 Interior Design Problem</td>
<td>5</td>
<td></td>
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<tr>
<td>Solving Fundamentals</td>
<td>5</td>
<td></td>
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<tr>
<td>ENG 104 Writing: An Accelerated Foundational Course</td>
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</tr>
<tr>
<td>ARC 111 Introduction to History and Theory</td>
<td>3</td>
<td></td>
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<tr>
<td>MA 109 College Algebra</td>
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<tr>
<th>Semester 2</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ID 172 Interior Design Graphics and Theory: Designer as Problem Solver</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>SOC 101 Introduction to Sociology (recommended USP Social Science)</td>
<td>3</td>
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</tr>
<tr>
<td>ID 142 History and Theory of Interior Design</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MA 123 Elementary Calculus and Its Applications (USP Inference/Logic – recommended)</td>
<td>3</td>
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<tr>
<td>A-H 105 Ancient Through Medieval Art (USP Humanities – recommended)</td>
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<tr>
<td>ID 272 Interior Design Studio I: Designer as Artist</td>
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<tr>
<td>ID 262 Interior Building Systems</td>
<td>3</td>
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<tr>
<td>ENG 203 Business Writing (recommended Graduation Writing Requirement course)</td>
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<tr>
<td>ID 243 Design Theory in the Modern Era</td>
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<td>USP Elective*</td>
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<td>ID 274 Interior Design Studio II: Designer as Humanist</td>
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<tr>
<td>ID 263 Introduction to Digital Media</td>
<td>3</td>
<td></td>
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<tr>
<td>ID 264 Color Theory</td>
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**Semester 5**
- ID 370 Vertical Studio ............................................ 5
- ID 365 Interior Design Finish Materials .................................. 3
- USP Humanities ...................................................... 3
- ID 366 Lighting Design and Theory .................................. 3
- USP Communication Elective** ...................................... 3
| **TOTAL** | 17 | |

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<tr>
<th>Semester 6</th>
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<tr>
<td>ID 370 Vertical Studio</td>
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<td>ID 326 Interior Design Experiential Preparation</td>
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<tr>
<td>USP Cross Cultural</td>
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<tr>
<td>MKT 300 Marketing Management (Professional Support course)</td>
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<tr>
<td>USP Natural Sciences</td>
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<td>ID 427 Interior Design Outreach Experience: Internship</td>
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<td>ID 428 Interior Design Outreach Experience: Travel Seminar</td>
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<tr>
<td>USP Natural Science</td>
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<tr>
<td>PSY 100 Introduction to Psychology (recommended USP Social Science)</td>
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<td>ID 478 Interior Design Advanced Problem</td>
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<td>Solving: Designer as Creator and Pragmatist</td>
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<td>ID 429 Interior Design Portfolio Preparation</td>
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<td>ID 460 Comprehensive Research and Programming</td>
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<td>MKT 466 Interior Design Professional Practice</td>
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**Total Credit**: 166

*ECO 201 is recommended for students interested in a business minor. See “Focused Elective Options” below. **Students may take COM 181, 252, 281 or 287. ***See “Focused Elective Options” below. *Subsequent Semesters are reversible.

**Focused Elective Options**
The Focused Electives will complement the interior design course work requirements, and provide students with additional depth or breadth in an area that will enhance their education and preparation for the interdisciplinary nature of contemporary design practice. Students may first be introduced to a Focused Elective area through the Professional Support or USP requirement. Each
Interior Design student will complete a minimum of 12-15 credit hours of Focused Electives. While there is opportunity for independent selection, suggested focused electives areas are as follows:

**Psychology**

Interested students would be able to complete a minor in Psychology (20 hours) by fulfilling the requirements described in the University Bulletin. Students choosing this option are recommended to take both PSY 100 and PSY 215 as part of their USP course work.

**Business**

With careful planning, students interested in this option would be able to complete a business minor (21 hours) provided they fulfill all the requirements described in the University Bulletin under the College of Business and Economics. Students selecting a business minor are recommended to take ECO 201 for 3 hours credit in the University Studies Program (USP) elective category. ECO 202 would be taken to fulfill 3 hours of free program electives. The remaining 15 hours required for the Business minor would count as Focused Electives. Students selecting the Business minor are encouraged to make this decision early in their college career in order to complete both major and minor requirements in a timely manner.

**Historic Preservation**

Focused Electives could be concentrated in the area of Historic Preservation. Students desiring this option would be required to take ID 589, Restoration Preservation I. In addition, students would take a minimum of 9 additional hours selected from: HP 501, Selected Topics in Historic Preservation (may be repeated for 9 hours); MAT 522, History of Textiles; and GEO 490G, American Landscapes.

**Architecture**

Students selecting this focus may take the Architecture Furniture Construction sequence as well as other architecture seminars or theory classes to complete 12-15 hours.

**Fine Arts**

Students may fulfill the fine arts focus in a number of ways. A minimum of four courses for a total of 12 hours must be taken. The four courses may be (1) all studio arts; (2) all art history; or (3) a combination of studio arts and art history. All courses must be above the 100 level. A minimum of three of the courses must be at the 300 level or above.

**Studio Art**

With careful planning, students can complete a minor in studio art provided they fulfill the requirements described in the University Bulletin under the College of Fine Arts. Students selecting art studio as a minor are encouraged to take A-H 105 to fulfill one of the USP Humanities requirements as well as fulfilling one of their ID Professional Support courses with a 300 level or above art studio course.

**Art History**

Students have opportunity to obtain an art history minor with careful planning and completing the requirements described in the University Bulletin under the College of Fine Arts, which includes a language requirement. Again, students choosing this option would be encouraged to take A-H 105 to fulfill one of the USP Humanities requirements as well as fulfilling one of their ID Professional Support courses with a 300 level or above Art Studio course. Depending upon individual foreign language competency, students selecting this option may require additional foreign language.

**Digital Media**

Students selecting this option may select 12 hours from the following digital media courses on campus: A-S 200, Studio I; A-S 345, Web Design; A-S 346, Digital Video; A-S 347, Multimedia; A-S 385, Digital Methods for Photography; JOU 330, Web Publishing and Design; ARC 405, Digital Visualization I; and ARC 406, Digital Visualization II.

**Design Your Own Focus**

Students may propose a self-directed area of interest to expand their understanding of some field that is complementary to the interior design profession. Students will submit a petition proposing their focus to their faculty advisor. The self-directed option must have a defined focus. Their faculty Advisor and the Director of the School of Interior Design will review and approve/disapprove the proposal. At least 9 of the 12 total hours must be at the 300 level or above.

For information on graduate opportunities available to Interior Design students, please consult the UK Graduate School Bulletin; or visit the College of Design Web site at: www.uky.edu/Design/interiordesign.htm.
The College of Education prepares students for professional careers in the field of education and human services. In addition to producing excellent teachers, College of Education graduates have gone on to excel in numerous other professional fields.

Ninety eight percent of the college faculty have attained the highest degrees possible in their fields. The College provides students with access to state-of-the-art technology. Each building is equipped with computer laboratories and new “smart” classrooms to keep students and faculty in pace with the latest technological advances in education.

Whether a student’s interest is teaching, administration, school or counseling psychology, coaching, dance, or special education, a degree from the UK College of Education means that he/she will be prepared for a rewarding career and a lifetime of influence on the lives of others.

Educator Preparation at UK

The educator preparation unit of the University of Kentucky includes programs in the colleges of Agriculture, Communications and Information Studies, Education, Fine Arts, Health Sciences, and Social Work that prepare professionals for careers in public education. The dean of the College of Education is the chief educator preparation officer for the UK educator preparation unit.

The theme of the educator preparation unit is Research and Reflection for Learning and Leading. The vision of the unit is to become one of the nation’s 20 best public professional education units with emphasis on research, reflection, learning and leading.

The mission for the UK educator preparation unit is as follows: the Educator Preparation Unit at the University of Kentucky endeavors to expand the knowledge of teaching and learning processes across a broad educational spectrum. The unit fosters a culture of reflective practice and inquiry within a diverse community of students, faculty, and staff. As part of a research-extensive university, the unit prepares professionals for a variety of roles in educational settings and community agencies and provides leadership in the improvement of the education, health, and well being of citizens in the Commonwealth, the nation, and the world.

“The university experience can be overwhelming for freshmen until they choose a major and focus their efforts. When I joined the College of Education I immediately felt as though I was part of a community seeking to improve the world around us through the lives of our students. The college offers many ways for students to become involved through student organizations and social events.

During my time in the College of Education I have met wonderful, helpful and supportive people whom I hope to stay in contact with throughout my career as an educator. The professors have an enthusiasm for teaching that transfers to their students and motivates students to put forth their best efforts. The faculty has instilled in me a wealth of knowledge about the field of education and the world in which I will be teaching. My courses in the College of Education have helped me grow as a future educator and as a person. These courses have offered many opportunities to be in the classroom, which have helped prepare me to teach today’s diverse population of students. As a senior in the Learning and Behavior Disorders and Early Elementary Education programs, I feel well prepared to meet the demands of today’s classroom.”

– Clelia Smyth

Federal Title II Reporting

The Educator Preparation Unit of the University of Kentucky participates in federal reporting of student performance on PRAXIS examinations required for state educator licensure. For the 2004-2005 program completers, UK students had an overall pass rate on the required examinations for Kentucky educator licensure of 96 percent, compared with a statewide pass rate of 94 percent. Historically, the 2000-2001 pass rate for UK was 97 percent (93 percent statewide), the 2001-2002 pass rate for UK was 96 percent (94 percent statewide), the 2002-2003 pass rate for UK was 96 percent (94 percent statewide), and the 2003-2004 pass rate for UK was 98 percent (95 percent statewide).

For additional information about the performance of UK students on PRAXIS tests, go to www.title2.org and select the pages for Kentucky. For additional information about UK programs in relation to other educator preparation programs in Kentucky, go to the Kentucky Education Professional Standards Board Web www.keppreportcard.org.

Accreditation

The Professional Education Unit for the University of Kentucky is accredited by the National Council for the Accreditation of Teacher Education (NCATE), and all professional educator programs are approved by the Kentucky Education Professional Standards Board (EPSB).

Relationship With the Kentucky EPSB

All University of Kentucky educator preparation programs, initial or advanced, have been approved by the Kentucky Education Professional Standards Board (EPSB), in accordance with Kentucky statutes and regulations. In addition to overseeing all educator preparation programs approved for operation in Kentucky, the EPSB also issues, renew and revokes all Kentucky educator licenses (certificates). Kentucky educator certification regulations are always in a state of change. For the most up-to-date information about educator certification, refer to the EPSB Web site at: www.kyepsb.net/

Undergraduate Programs in Education

The University of Kentucky grants the following degrees in the College of Education:

- Bachelor of Arts in Education
- Bachelor of Science in Education

Students pursuing one of the following majors earn a Bachelor of Arts in Education degree: early elementary education, health promotion, kinesiology (teacher certification or exercise science), middle school education, secondary education, or special education (learning and behavior disorders). Students selecting the major in secondary education may specialize in one of the following: English, foreign language (French, German, Latin, Spanish, or Russian), mathematics, science (biology, chemistry, earth science, physical science or physics), or social studies.
Students pursuing special education (interdisciplinary early childhood education and moderate and severe disabilities) earn the Bachelor of Science in Education degree.

Persons holding a bachelor’s degree from a regionally accredited institution, with a minimum overall GPA of at least 2.50 may pursue initial educator preparation at the undergraduate level by following any of the programs described in this Bulletin. If these persons also wish to earn a UK bachelor’s degree, all UK degree requirements must be met. All educator preparation students at the University of Kentucky are expected to meet the requirements for “Admission, Retention and Exit from Teacher Education Programs” as described on page 166 of this Bulletin.

The College of Education is currently suspending its undergraduate program preparing students for foreign language education. Students with an interest in foreign language education should contact an advisor in the College of Arts and Sciences. All educator preparation in foreign languages at the University of Kentucky occurs at the masters degree level.

**Graduate Programs in Education**

**Graduate Degrees and Certificates**

The University of Kentucky offers the following graduate degrees for education:

- Master of Arts in Education
- Master of Science (Kinesiology and Health Promotion)
- Master of Science in Education
- Master of Science in Family Studies (Early Childhood Education)
- Doctor of Education (Ed.D.)
- Doctor of Philosophy (Ph.D.)
- Interdisciplinary Doctor of Philosophy (Ph.D. in Education Sciences)
- Rank II (32 hour) and Rank I (30 hour) Programs in Professional Education

**Graduate Programs Leading to Advanced Educator Licensure**

The University of Kentucky offers graduate programs leading to advanced educator licensure in Reading and Writing, Computer Science in Instructional Systems Design, English as a Second Language, Library Science, Communication Disorders, School Psychology, and School Leadership.

**UK Graduate Certificates**

The University of Kentucky offers graduate certificates in Middle and Secondary Reading and in Distance Education. (Candidates must hold a valid teaching certificate to enter the Graduate Certificate Program in Middle and Secondary Reading.)

**Graduate Programs Leading to Initial Educator Licensure**

The following graduate level initial educator certification programs are available at the University of Kentucky: 1) stand-alone certification program in special education/learning and behavior disorders, grades P-12; 2) master of science program leading to certification in moderate/severe disabilities, grades P-12; 3) master of science in early childhood special education with an emphasis in interdisciplinary early childhood education, grades birth through kindergarten; 4) master of arts in education with initial certification in secondary education, grades 8-12, English, mathematics, science (biology, chemistry, earth science, physical science or physics), social studies; 5) master of arts in education with initial certification, grades 5-12 in business and marketing education; 6) master of science in vocational education with initial certification, grades 5-12 (options in agriculture education and family and consumer sciences education); 7) master of science in communication disorders with initial certification, grades P-12; and 8) certification program in school psychology, grades P-12.

For more information about programs, please visit the College of Education Web site at: www.uky.edu/education/.

**NOTE:** The graduate educator preparation program with an option in foreign language education will be moving to the College of Arts and Sciences beginning in fall 2005. Students are encouraged to contact an advisor in the Department of Modern and Classical Languages, Literatures and Cultures for additional information.

**Graduate Alternative Certification Programs Leading to Initial Educator Licensure**

Graduate Alternative Certification Programs leading to initial educator licensure are offered in the areas of Moderate and Severe Disabilities P-12, Middle School Education 5-8, and Secondary Education 8-12. Students who wish to enroll in a Graduate Alternative Certification Program must be employed in one of the participating school districts, and must meet the College of Education Admission, Retention and Completion standards, and the standards of the UK Graduate School. Graduate Alternative Certification Programs are three-year programs, including the Kentucky Teacher Internship Program. Additional alternative certification programs are under development and may become available at any time. Contact the Office of the Associate Dean for Academic and Student Services for more information.

**Special Facilities and Services**

- **The Education Library** provides a wide range of education materials, with over 400 journals and 100,000 books, plus children’s literature and Kentucky state-approved textbook collections. In addition, major education databases are available through the library’s Web site at: www.uky.edu/Libraries/edc.
  - **Center for Educator Preparation Information Systems** provides database and information system support for the College of Education. In addition, persons associated with the center engage in projects to make information systems technology more accessible to educator preparation programs nationally and in the Commonwealth.

The **Instructional Technology Center** provides media services to students, faculty, and programs of the College of Education. Services include computer classrooms, computer hardware and software support, presentation technology, circulation of nonprint teaching materials and audiovisual equipment; a materials preparation laboratory; graphic, photographic, and recorded media; and facilities for working with films and electronic media. The staff is available to assist with a wide range of technology-related activities.

The **Literacy Clinic** provides diagnostic and instructional services. Reading and language arts materials, children’s literature, professional texts and journals, and other reference materials are available. Tutors are recommended, based on availability.

The **Office of Minority Recruitment and Retention**, 128 Taylor Education Building, (859) 257-1229, serves to “reach” minority students currently enrolled in the College, to become aware of their concerns, to provide needed support, and to encourage participation in activities and programs of particular interest to education majors. The office also works with local and adjacent school districts to implement Future Educators of America clubs, collaborates with Bluegrass Community and Technical College in identifying students who are interested in teaching, participates in campus-wide minority recruitment and retention activities, and builds community awareness of the need for minority teachers through participation in various projects.

The **Institute on Education Reform** coordinates the efforts of the College of Education to implement the Kentucky Education Reform Act (KERA). The Institute has three major goals: to stimulate research related to the implementation and effectiveness of KERA initiatives; to serve as a clearinghouse for information related to education reform in Kentucky; to provide staff development for teachers and administrators; and to redesign College of Education professional preparation programs to prepare graduates for the restructured schools of Kentucky.

The **University of Kentucky Council on Economic Education** works with classroom teachers to identify graduate courses, in-service programming, and seminars to help teachers integrate economic concepts into the school curriculum.

The **Office of Educational Research and Development** provides technical support to faculty and staff involved in research and proposal development, particularly as these enhance the College’s participation in the Kentucky Education Reform Act (KERA), assists in follow-up studies of graduates, and
assists with internal studies and evaluations of programs.

The Policy Analysis Center for Kentucky Education (PACKE) conducts research on policy issues related to education and evaluates implemented policies and programs.

The Office of Higher Education Research and Development conducts research on questions on higher education that are important to Kentucky. Research results are shared with the Council on Postsecondary Education and other institutions in Kentucky.

The Biodynamics Laboratory is a multi-disciplinary facility housed in the Center for Biomedical Engineering. Faculty and students from Kinesiology and Health Promotion, Biomedical Engineering, Sports Medicine, Athletic Training, Minimally Invasive Surgery, and other related fields use high-speed videography, electromyography, and force measures to understand human movement.

The Pediatrics Exercise Physiology (PEP) Laboratory is one of only a handful of facilities in the world designed specifically to serve the needs of pediatric patients.

The UK Body Composition Core Laboratory (BCCL) is a human-based laboratory facility specifically designed to provide state-of-the-art body composition analysis for research and clinical investigations.

The Collaborative Center for Literacy Development (CCLD), 101 Taylor Education Building, was established by the Kentucky General Assembly in 1998 to make available training in literacy for educators and to promote literacy development. The Center focuses on six requirements laid out in Senate Bill 186, to: provide professional development and coaching for classroom teachers to implement reliable research-based reading models; establish a demonstration and training site for early literacy at each of Kentucky’s public universities; collaborate with public and private post-secondary institutions to provide quality pre-service and professional development in early reading instruction; assist districts located in areas with low reading skills to assess and address identified literacy needs; identify models of reading instruction supported by research; and develop and implement a clearinghouse for information about reading models. The CCLD works to improve achievement for students pre-school through adulthood.

The School Psychology Clinic, 641 Maxwell Court, (859) 257-1381, provides diagnostic assessment, intervention and consultative services to assist children, adolescents, college students, and adult learners with psychological and educational concerns. The clinic is also organized to provide supervised training for graduate students in school psychology at the University of Kentucky. Referrals and requests for services are accepted from parents, teachers, counselors, and others, as well as from school systems, community agencies and organizations.

The Counseling Psychology Services Clinic, 251 Dickey Hall, (859) 257-4159, is operated by the Department of Educational and Counseling Psychology. The CPS Clinic provides individual, couples, family, parent-child, and group counseling. Diverse populations are welcomed; personal, career, and interpersonal issues can be addressed. The CPS Clinic serves as a training facility for advanced-level masters and doctoral students who are supervised by licensed psychologists. Fees for the CPS Clinic operate on a sliding scale to allow the greatest number of individuals in Lexington and the surrounding counties to be served.

The Center for Traumatic Stress Research, 251 Dickey Hall, (859) 257-9338, is a multi-service psychological trauma center dedicated to providing specialized counseling services to trauma survivors. The Center offers short-term psychotherapy to individuals of all ages, critical incident stress debriefings, and assessment and evaluation of posttraumatic symptomatology for litigation and/or disability claims. The Center also serves as a training clinic for graduate students in Counseling Psychology.

General Information

Students who wish to be recommended for any state educator licensure (certification) must meet the requirements of the Kentucky Education Professional Standards Board, and the University of Kentucky Senate.

Students desiring to be recommended for initial certificates in a major must be admitted to the Teacher Education Program associated with that major. The number of students admitted to any UK teacher education program each year depends upon the availability of resources for maintaining quality instruction.

Admission to a teacher education program is highly selective and may be competitive. Meeting minimum requirements for application does not guarantee admission.

Students will be recommended for degrees only upon completion of approved degree programs. Students who have not been admitted to a teacher education program will not be permitted to enroll in courses requiring Teacher Education Program admittance.

ADMISSION, RETENTION AND EXIT FROM TEACHER EDUCATION PROGRAMS

A student must be admitted, retained in, and successfully exit from a state-approved teacher education program in order to receive a teaching certificate. The components of an approved teacher preparation program include: 1) an earned bachelor’s degree from a regionally accredited institution of higher education, 2) completion of approved teaching subject matter field(s), 3) successful completion of state mandated testing, 4) completion of a teacher preparation program, including student teaching, 5) and verification by program faculty that all applicable standards have been met.

The College of Education Certification Program Faculties, the College of Education Director of Academic Services and Teacher Certification, and the University Registrar are charged with the responsibility to monitor a student’s progress through the teacher preparation program, and to recommend to the Kentucky Education Professional Standards Board (EPSB) that a successful candidate be awarded a state teaching license (certificate).

Continuous Assessment in Teacher Education Programs

A student’s progress through all teacher preparation programs is continuously monitored, assessed, and reviewed. In addition to typical evaluation processes that occur as part of their course work and field placements, students will be assessed a minimum of three times during their program by representatives of their respective program faculty.

The three assessments will occur upon entry into the Teacher Education Program, at a midpoint in the program (no later than the semester prior to student teaching), and as students exit the program following student teaching. Assessments will include, but are not limited to: (a) appropriate scores on approved standardized tests, (b) review of grades via inspection of transcript, (c) personal and professional skills assessed during interviews with program faculty when taking campus based courses, and during field experiences, (d) portfolio documents, and (e) continued adherence to the KY Professional Code of Ethics.

Following admission to a Teacher Education Program, if problems have been identified at any assessment point, program faculty will determine a plan for addressing the problems and implement the plan including feedback and direction to the student. In addition, if specific strengths are recognized during these assessments, the student will be commended.

Standards for Admission to a Teacher Education Program

1. Candidates for admission must have completed at least 60 semester hours, or, if pursuing initial certification as a post-baccalaureate graduate or graduate student, must have earned a bachelor’s degree from a regionally accredited institution of higher education.

2. Candidates for admission must demonstrate academic achievement by earning a minimum overall GPA of 2.50. In addition, post-baccalaureate graduate and graduate level students must dem-
Candidates for admission must demonstrate a minimum 2.50 GPA in the teaching subject matter field(s). Students seeking admission to a Master’s Degree initial certification program must also satisfy UK Graduate School admissions standards.

3. Candidates for admission must certify their knowledge of the Kentucky Professional Code of Ethics and must sign a state mandated character and fitness review.

4. Candidates for admission must demonstrate aptitude for teaching by presenting three letters of recommendation from individuals who can attest to the candidate’s potential success in teaching.

5. Candidates must present an Admissions Portfolio. Although the contents of the portfolio will vary by program, it will include at least the following: “best piece” sample(s) of writing in the subject matter field(s); evidence of experience with students and/or community; and a written autobiography or resume.

6. Candidates for admission must demonstrate an acceptable level of skills in written communication. This will be assessed through an on-demand writing task at the time of the interview. In lieu of an on-demand task, program faculty may require that the candidate demonstrate having earned a minimum grade of B in a college level written composition course.

7. Candidates for admission must demonstrate an acceptable level of skills in oral communication. This will be assessed by the program faculty at the time of the admissions interview. In lieu of oral communication skills at the time of the interview, the program faculty may require that students have earned at least a B in a college level public speaking course.

8. Candidates for admission must present acceptable scores on one of the following standardized tests:
   - **ACT** – with minimum composite score of 21.
   - **SAT** – minimum composite score of 990 (combination of Verbal and Quantitative). A minimum grade of B on a college level written composition course must accompany the SAT scores. Composition courses normally used to fulfill this requirement include ENG 101, ENG 102, ENG 105, ENG 305, or an equivalent course from another institution. Advanced Placement English used to fulfill the USP writing requirement may also be used.
   - **GRE** – minimum composite score of 1200 (combination of Verbal, Quantitative, Analytic). A minimum grade of B on a college level written composition course must accompany the GRE scores. Composition courses normally used to fulfill this requirement include ENG 101, ENG 102, ENG 105, ENG 305, or an equivalent course from another institution. Advanced Placement English used to fulfill the USP writing requirement may also be used.
   - **PRAXIS I Reading Test** – (173 paper or 320 computer), **Mathematics** (173 paper, 318 computer), and **Writing** (172 paper, 318 computer).

9. For those programs requiring EDP 202 as a prerequisite for admission to teacher education, students must complete EDP 202 with a grade of C or better.

**Retention of Candidates in Teacher Education Programs**

The progress of candidates who have been admitted to a teacher education program is continuously monitored. Some of the items which are monitored are: (a) whether a student continues to earn grades of C or better in professional education classes, (b) whether a student continues to maintain 2.50 minimum GPAs overall, 2.50 in the professional education component as defined in the student’s program description, and 2.50 in all required subject areas, (c) whether a student continues to demonstrate adherence to the EPSB Professional Code of Ethics, and (d) whether adequate progress is being made in building the Working Portfolio.

If problems are identified, program faculty will determine a plan for addressing the problems and implement the plan including feedback and direction to the student.

Prior to the student teaching semester, each candidate will be asked to provide evidence in the form of the Working Portfolio to demonstrate the acquisition of skills related to teaching in the chosen subject field, and to document progress in any identified problem areas. Each candidate’s portfolio will be reviewed by the appropriate program faculty, and continued progress through the program will be contingent on the results of this mid-point review.

Admission to student teaching requires a successful retention review and recommendation by the program faculty that the candidate be allowed to student teach.

All teacher certification candidates are encouraged to complete the required state-mandated examinations prior to beginning student teaching.

**Exit from Teacher Certification Programs**

All candidates for completion of a teacher education program must continue to meet all standards for admission and retention at the time of exit.

At exit all teacher certification candidates must present an Exit Portfolio for review by the appropriate program faculty. The exit portfolio will be organized by Kentucky New Teacher Standards and will include a mix of items selected by the candidate and required by the particular program faculty.

The program faculty must certify that a review of the Exit Portfolio, and other pertinent documents has demonstrated that the candidate has met all of the Kentucky New Teacher Standards as a prerequisite to recommending the candidate for a teaching license.

Prior to exit from the teacher certification program all candidates must achieve required cut-off scores on all Kentucky state mandated teacher certification tests.

**State Mandated Testing and the Kentucky Teacher Internship**

Successful completion of the examinations required by the Kentucky Education Professional Standards Board is a precondition for the granting of a teaching license (Certificate).

Upon being recommended by the College of Education for a Kentucky Teaching License (Certificate), a candidate will be issued a Kentucky Letter of Eligibility for the Kentucky Teacher Internship Program. Upon employment in a Kentucky P-12 school, the candidate will receive a one-year license to practice as a fully qualified intern teacher. After successfully completing the internship year, the candidate will be eligible for a regular Kentucky Professional Teaching License (Certificate).

An exception to this rule are the Kentucky Alternative Certification Programs. In these programs, the Kentucky Teacher Internship is
part of the program, which allows candidates, upon completion of the program, to be recommended for a full professional educator license (certificate).

Information concerning licensure in other states is available from the College of Education office of Academic Services and Teacher Certification.

Admission and Graduation for Secondary Education Students Not Seeking Admission to a Teacher Certification Program

1. All students pursuing a secondary education major without teacher certification must be admitted to advanced standing as described in items 2 - 4 below.
2. To be admitted to advanced standing a student must have completed at least 60 semester hours.
3. Students must demonstrate academic achievement by earning a minimum overall GPA of 2.50 at the time of applying for advanced standing. At the time of graduation, students must demonstrate not only a minimum overall GPA of 2.50, but also a minimum GPA of 2.50 in the teaching subject matter field(s).
4. All requests for admission to advanced standing must be reviewed by appropriate faculty advisors. Students not recommended for advanced standing by an appropriate advisor are ineligible to continue or graduate from College of Education programs.

Calculation of GPAs for Admission to Initial Certification Programs

GPA Rules

All candidates for admission to a UK initial teacher certification program must have earned an undergraduate cumulative GPA of at least 2.50.

In addition, candidates for admission to a graduate level initial certification program, i.e., secondary programs, vocational education, must have earned in their subject area fields a GPA of at least 2.50.

Master’s degree initial certification programs require a cumulative GPA of 3.0 for all graduate work prior to admission to the program.

UK cumulative GPAs are figured using the rules of the UK Registrar.

Undergraduate initial certification programs require a UK cumulative GPA of 2.50 calculated after the completion of at least twelve semester credit hours.

All courses used to satisfy subject matter certification requirements are used to calculate subject matter GPAs. Verification of subject matter GPAs require the use of any applicable non-UK transcripts for information about grades, credit hours and quality points.

Master’s degree initial certification programs require an undergraduate overall GPA of 2.50, but do not require a UK cumulative GPA prior to admission.

Post bachelor’s degree initial certification programs require an undergraduate overall GPA of 2.50, but do not require a UK cumulative GPA prior to admission.

Determination of GPAs for Admission to Initial Certification Programs

If the initial certification program requires a UK GPA, the GPA would be calculated using the rules of the UK Registrar.

If the initial certification program does not require a UK GPA, the required cumulative GPA of at least 2.50 is taken directly from the transcript that shows the award of the Bachelor’s degree.

If an initial program requires review of the graduate GPA, all graduate courses taken on all transcripts are used to calculate the graduate GPA of at least 3.0.

Candidates for admission to a post-baccalaureate graduate initial certification program with less than a 2.50 cumulative GPA may establish a UK undergraduate GPA for the purposes of admission to the program. The UK GPA calculated for this purpose must include at least 12 semester hours taken from four sections of the UK University Studies categories and approved courses lists.

Subject area GPAs are calculated using all courses included on the candidate’s approved subject area course listing form.

Questions regarding the College of Education Admission/Retention/Exit policy should be directed to:

Office of Academic Services and Teacher Certification
166 Taylor Education Building
University of Kentucky
Lexington, KY 40506-0001
(859) 257-7971
www.uky.edu/education/

NOTE: The College of Education anticipates a substantial revision in the policy on admission, retention and completion of educator preparation programs. This revision will strengthen emphases on continuous assessment, requirements relating to the meeting of standards, and rules relating to basic standardized testing and GPA requirements.

Financial Aid/Scholarships

The College of Education awards scholarships to both undergraduate and graduate students. Information and application forms are available in 166 Taylor Education Building. The deadline for scholarship applications is February 15. Graduate students should also contact the Director of Graduate Studies in their department for information about any targeted scholarship funds. Kentucky residents who are enrolled in a teacher certification program may also apply for funds from the Kentucky Higher Education Assistance Authority Teacher Scholarship program (KHEAA). Students applying for funds through the KHEAA teacher scholarship program must include a completed FAFSA need analysis data form with their applications. Funds are awarded first to students fully admitted to a teacher education program, in order of the greatest financial need. The College of Education also administers the Kentucky Minority Educator Recruitment and Retention scholarship program (MERR) for the Kentucky Department of Education. Minority students applying for MERR funds must be Kentucky residents. Both KHEAA and MERR teacher scholarships are forgivable on a semester by semester basis when the candidate teaches in Kentucky public schools. Award recipients who do not teach in Kentucky public schools must pay back the awards, with interest. KHEAA and MERR forms are available in 166 Taylor Education Building.

General Rules for Student Teaching

A student may enroll in student teaching in one of the educator preparation programs provided he or she has:

1. been admitted to and retained in the appropriate teacher education program;
2. maintained a grade-point standing of at least 2.50 in (a) subject matter area(s) as defined by the program, (b) professional education, (c) related studies, and (d) overall;
3. completed all professional education courses except student teaching;
4. completed a minimum of 75 percent of the required subject matter courses;
5. applied and been accepted for student teaching two semesters prior to the one in which student teaching is to be done;
6. completed the required national and state criminal background check with no criminal background identified;
7. been accepted by the school system and supervising teacher where he or she plans to do student teaching;
8. scheduled no more than 3 hours of college work to be carried during student teaching with no classes scheduled to interfere with the student teaching assignment; and,
9. presented evidence of having had a specified physical examination.

10. P-12 certification programs require student teaching in more than one grade level.

Policy on Intensive Field Experiences

The University of Kentucky College of Education is committed to preparing candidates for the teaching profession who are effective, reflective decision makers. To that end, and in order to meet state certification regulations and national accreditation requirements, teacher candidates complete an array of
carefully planned field experiences. These experiences are systematically integrated into the teacher education program curriculum.

In order to ensure high quality experiences, the College has established a network of clinical sites where candidates complete field placements. These sites are part of the university’s extended campus known as the university clinical/field network. Sites are selected at the program level (i.e., by the program faculty that governs the curriculum for the particular certification area). Selection decisions are made using specific criteria that are directly linked to program goals, accreditation standards, and certification requirements.

All teacher candidates are expected to complete their intensive field experiences (referred to as practicum and student teaching) in these approved clinical sites.

Character and Fitness Reviews

All students seeking admission to, retention in, or completion of a UK educator preparation program, must complete a state mandated character and fitness review. In addition, students with records of misconduct beyond simple traffic violations must provide complete documentation of this misconduct utilizing written procedures available in the office of Academic Services and Teacher Certification. Records of misconduct will be available for use by program faculties in making decisions about admission, retention and completion of the program. Students must also complete any state-mandated background checks, which may include a national check of FBI records. By Kentucky statute, persons with records of serious legal misconduct are ineligible for student teaching, state teaching licensure, or employment in the public schools. Students are responsible for completing all required background check procedures in a timely manner so that decisions about their movement through the program may be made.

Appeals

Candidates who are denied admission to an educator certification program, not retained in the program, or denied completion of the program, may appeal the decision of the program faculty.

The first appeal is for the program faculty to reconsider its initial decision. Candidates must request a reconsideration within 30 days of the date on the letter of denial. The request for reconsideration must be presented to the program faculty chair, who will call a meeting of the program faculty to review the original decision. The program faculty chair will notify the Director of Academic Services and Teacher Certification of the faculty’s decision, and the Director will notify the candidate in writing.

If the program faculty does not alter its initial decision, the candidate may appeal to the College of Education standing committee on Undergraduate Admissions and Standards or the College of Education standing committee on Graduate Admissions and Standards. Candidates wishing to appeal to one of these admissions and standards committees must present their request for committee review to either the Associate Dean for Academic and Student Services or the Associate Dean for Research and Graduate Studies. The Associate Dean will assemble the necessary materials, call the committee together to hear the appeal, and inform the candidate of the committee’s decision. The Associate Dean will also notify the Director of Academic Services and Teacher Certification so that student records may be updated. For purposes of admission, retention or completion of educator certification programs, the decision of the admissions and standards committee is final.

Standards and Standards Sets in Educator Preparation Programs

All College of Education programs are standards-based, requiring candidates to meet these standards before completing an educator preparation program. Candidates are assessed on these standards at the three continuous assessment points: admission to the program, prior to final practicum experiences, and at program completion.

There are three core sets of standards required for completion of all College of Education educator preparation programs. They are: Interdisciplinary Early Childhood Education Standards (IECE), New Teacher Standards (IECE), or Administrator Standards (ISLLC) (whichever is appropriate for the candidate’s program.) For brevity, only the IECE and NTS standards sets are included in this section. Candidates should see their program faculty chairpersons concerning the standards that are applicable to their particular program.

Interdisciplinary Early Childhood Education Birth to Primary Standards (IECE)

1. Designs/plans instruction
2. Creates/maintains environments
3. Implements instruction
4. Assesses and communicates learning results
5. Reflects/evaluates professional practices
6. Collaborates with colleagues/families/others
7. Engages in professional development
8. Supports families
9. Demonstrates implementation of technology

Beginning (New) Teacher Standards (NTS)

1. Designs/plans instruction
2. Creates/maintains learning climates
3. Implements/manages instruction
4. Assesses and communicates learning results
5. Reflects/evaluates teaching/learning
6. Collaborates with colleagues/parents/others
7. Engages in professional development
8. Knowledge of content
9. Demonstrates implementation of technology

College of Education Skills and Dispositions

1. Communicates appropriately and effectively
2. Demonstrates constructive attitudes
3. Demonstrates ability to conceptualize key subject matter ideas and relationships
4. Interacts appropriately and effectively with diverse groups of colleagues, administrators, students, and parents in educational settings
5. Demonstrates a commitment to professional ethics and behavior

College of Education Technology Standards

1. Integrates media and technology into instruction
2. Utilizes multiple technology applications to support student learning
3. Selects appropriate technology to enhance instruction
4. Integrates student use of technology into instruction
5. Addresses special learning needs through technology
6. Promotes ethical and legal use of technology disciplines

Applying for Kentucky Educator Licenses

The University of Kentucky offers programs for most initial and advanced professional educator licenses (certificates) issued by the Kentucky Education Professional Standards Board (EPSB). EPSB license requirements are subject to change by the EPSB at any time.

UK candidates for Kentucky professional educator licenses must submit all required application materials to Academic Services and Teacher Certification, 166 Taylor Education Building, Lexington, KY 40506-0001. Recommendations to the EPSB that an educator license be issued are based upon a final audit of all program completion requirements.

GRADUATION REQUIREMENTS

To graduate from the College of Education, a student must: 1) complete all specific program requirements as listed in this Bulletin; 2) meet all requirements of the College of Education admission/retention/exit policy; and 3) complete a minimum of 128 hours.
Because most students are pursuing both a UK degree and a state educator license (certificate), it is extremely important that advisors are consulted frequently to be sure that the best selection of courses is made to meet both requirements.

Undergraduate Advising

Lower division advising (freshman and sophomore standing) is accomplished and coordinated through Academic Services and Teacher Certification, 166 Taylor Education Building. (Kinesiology and Health Promotion advising takes place in the Seaton Center.)

Upper division students (junior and senior standing) and students admitted to a teacher education program are assigned faculty advisors.

DEPARTMENTS IN THE COLLEGE OF EDUCATION

Curriculum and Instruction

The Department of Curriculum and Instruction offers both undergraduate and graduate programs. Undergraduate programs prepare teachers for elementary, middle school, and secondary levels. Graduate programs include: advanced degrees in teaching at elementary, middle, and secondary levels; preparation for teaching at the college/university level; and preparation for instructional design roles in business and industry.

Educational and Counseling Psychology

The Department of Educational and Counseling Psychology offers course work leading to provisional and standard certification and licensure in the Commonwealth of Kentucky, by the Education Professional Standards Board and the Kentucky Board of Psychology, respectively. The UK counseling and school psychology doctoral programs are fully accredited by the American Psychological Association (APA), and the doctoral and specialist degree programs in school psychology are approved by the National Association of School Psychologists (NASP) and the National Council for the Accreditation of Teacher Education (NCATE).

Educational Leadership Studies

The Department of Educational Leadership Studies seeks to improve the quality of American education through improved training and competence of administrators. The department is particularly mindful of its obligation to supply the needs of Kentucky for high quality administrators in public schools and educational agencies. Advanced programs are offered to meet certification requirements for elementary, middle, and secondary principals, supervisors of instruction, and superintendents of schools.

Educational Policy Studies and Evaluation

The Department of Educational Policy Studies and Evaluation provides a unique opportunity for students who wish to develop the knowledge, judgment, and research skill required to address educational issues with flexibility and imagination. Students are offered the resources of historical, sociological, philosophical, and comparative analysis; knowledge of current educational issues; expertise in evaluation research; and the opportunity to learn skills necessary to evaluate the significance of studies that bear on policy. The department offers advanced degrees only.

Kinesiology and Health Promotion

The Department of Kinesiology and Health Promotion offers undergraduate courses and degree programs in kinesiology (physical education) and health promotion. Students are encouraged to take one 1-credit physical education class each semester during the first two years of college.

The Physical Education University Service program offers beginning instruction in both individual and team activities. Individual skill instruction is available in weight training, conditioning and fitness, golf, racquet sports, gymnastics, swimming, scuba diving, aerobic running and swimming, and dancing. Instruction in such team activities as basketball, soccer, volleyball, and softball is also available. In addition, intermediate and advanced courses in many of the activities are offered.

The kinesiology program is designed for students interested in teaching as well those interested in the application of knowledge and skills in kinesiology and health promotion in commercial settings. Students desiring teacher certification will complete one or more of the programs in kinesiology and health promotion described in this Bulletin. The department also offers a non-teacher certification kinesiology program in exercise science.

The purpose of health promotion is to promote quality of life for all people. This area of study is interdisciplinary, extending into biology, psychology, sociology, and medicine. Health promotion generally focuses on the whole individual, including social and emotional dimensions, not just the physical. The primary focus of course work in health promotion is on teacher certification. Opportunities for health educators exist in community agencies, adult fitness programs, and health education programs in industry and business. The department offers a minor in health promotion that does not lead to teacher certification.

In addition to kinesiology and health promotion, the department also offers a minor in dance. Students are able to pursue a teaching certificate in dance education.

Special Education and Rehabilitation Counseling

The Department of Special Education and Rehabilitation Counseling offers three different programs of study at the undergraduate level: (1) interdisciplinary early childhood education; (2) learning and behavior disorders; and (3) moderate/severe disabilities.

The undergraduate learning and behavior disorders programs offer the option to either dual certification or stand-alone learning and behavior disorders certification. Students enrolling in the undergraduate program leading to both special education certification and a regular certification area should note that it is not possible to obtain dual certification in the usual four-year (eight-semester) undergraduate program. Students should contact the department for sample programs that illustrate options for scheduling courses to facilitate program completion.

The department offers graduate level programs leading to initial educator certification in learning and behavior disorders, moderate/severe disabilities, and interdisciplinary early childhood education. Students may also pursue the masters degree in rehabilitation counseling, and graduate advanced preparation in a variety of special education topics.

Business and Marketing Education

Information on Business and Marketing Education appears on page 190.

DEGREE PROGRAMS IN THE COLLEGE OF EDUCATION

NOTE: All College of Education undergraduate programs require a minimum of 128 hours for graduation. However, determining the exact number of hours will vary depending upon a student’s chosen plan of study. Students are encouraged to review carefully each program and its components to determine the hours necessary for graduation.

B.A. in Education with a major in EARLY ELEMENTARY EDUCATION

Requirements for Program

The Early Elementary Education Program is aligned with the New Teacher Standards of the Kentucky Education Professional Standards Board, and the national standards for elementary education approved by the National Council for the Accreditation of Teacher Education.

The model for the early elementary education program presumes a collaborative relationship between school and university personnel focused on ensuring a high level of individual attention to the mentoring and socialization of teacher candidates. The faculty
recognizes that this is a labor-intensive process, requiring sustained time and effort by all parties. Work in early elementary education must be guided by two principles: first, a commitment to continuous improvement based on reflection, evaluation, and on-going research; second, a commitment to peer collaboration as a source of professional growth for teacher candidates as well as school and university faculty.

To receive the B.A. degree in Early Elementary Education, students must: (1) complete the University Studies Program; (2) complete at least 128 hours; (3) complete the program related studies courses; (4) complete the professional education component; and (5) complete an area of specialization. Available areas of specialization are Language and Writing, Social and Behavioral Sciences, Mathematics, Science, Creative Arts, and Special Education/LBD.

**Continuous Assessment**

1. Admission to the program is based on a selective admission process that generally occurs after students have completed 60 hours of university course work. All students are expected to meet the standards and rules for Admission, Retention and Exit from the Teacher Education Program as set forth in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

2. **Assessment at the Point of Entry to the Early Elementary Education Program.** At the point of entry students must present an admission portfolio which includes the following: a) a “best piece” sample of writing which demonstrates ability to research a topic in some depth; b) evidence of multicultural/cross-cultural experience with written reflection on the experience; c) evidence of having completed 30 hours of community service with early elementary age children, including a written reflection on the experience; d) evidence of having completed 20 clock hours of field experience in an elementary school, supervised by a qualified person; and, d) a written autobiography. Also at the time of entry, students will be required to complete an on-demand writing task.

3. **On-going Assessment: Assessment During the Professional Introduction Semester.** Assessment of progress in the Professional Introduction semester includes assessment strategies specific to individual courses, but also includes an overall “Professional Introduction Portfolio.” This portfolio is intended to be an extension of the admissions portfolio, adding the following exhibits: a) philosophy of education statement (this will be modified as candidates move through the program); b) “best piece” samples from course work that show evidence of content knowledge, pedagogical content knowledge, and effective practice (given the students’ level of experience); and c) evidence of competence in instructional applications of technology and systems of information management.

4. **Assessment of Progress in the Professional Block.** This includes assessment strategies specific to individual methods courses that confirm content as well as pedagogical knowledge. It also includes some additional assessments. At the beginning of the semester, students’ Professional Introduction Portfolios are reviewed and placement needs are discussed. Once the semester begins, students are observed throughout the semester by their supervisor and are assessed using an observation form which directly reflects the New Teacher Standards. Students also submit videotapes of themselves teaching and an analysis of these as well as other lessons they have taught. The supervisors provide feedback on these lessons as well. The faculty also reviews students’ Professional Development Plans. Each student develops a Professional Development Plan (PDP) in cooperation with UK faculty and school-based faculty. The PDP includes reflections on the student’s strengths and areas that need further work. This document serves as a planning tool for student teaching. Students also continue the development of their teaching portfolio, adding information that demonstrates competence on tasks related to the New Teacher Standards for each Professional Block course.

5. **Assessment During the Student Teaching Semester.** Students are assessed in a variety of ways during this semester. Student assignments include: observations reports, developing a thematic unit, critiquing their own teaching using videotapes, completing two solo weeks, and further developing their teaching portfolios.

**Statement on Student Teaching**

Students in the early elementary education program complete 16 weeks of student teaching, concentrating on the ages in grades P-5. (See the section on “Student Teaching” on page 168 for additional information on student teaching.) Students selecting Special Education/LBD as their area of specialization will do student teaching in early elementary education, P-5, and also in one of the Special Education/LBD approved grade levels, P-12.

**University Studies Component (38-53 hours)**

**Basic Skills**

A. MA 109 or MA 110 or Math ACT 26 or
B. UK by-pass exam or any calculus course
2. Two semesters foreign language or
   two years high school foreign language

**Inference and Communication Skills**

A. STA 200 plus PHI 120 or PHI 320
B. ENG 104

**Disciplinary Requirements**

A. Natural Sciences
   BIO 102 and BIO 103 and BIO 111
B. Social Sciences
   Choose one course from two separate disciplines
   below:
   ANT 101, ANT 241, ANT 242
   ECO 101, ECO 201
   GEO 152, GEO 172, GEO 222, GEO 240
   GWS 200
   PS 101, PS 235
   SOC 235, SOC 335

C. Humanities
   HIS 104 and HIS 105 or
   HIS 108 and HIS 109

**Cross-Cultural**

Choose one course from the approved list of cross-cultural courses

**Electives**

*Choose one course from the following:
   ENG 230, ENG 231, ENG 232, ENG 233, ENG 234, ENG 261, ENG 262, ENG 264, ENG 281

*Choose one art, music or theatre arts course from the USP Humanities listings

*Students must notify the English Department if used to fulfill the Graduation Writing Requirement.

**NOTE:** Students may use University Honors Program courses (IGN) and/or Discovery Seminars (DSP) to fulfill some of the above USP requirements.

**Program Related Studies (41 hours)**

A-E 200 Workshop in Design Education for Elementary Teachers
MUS 266 Teaching Music in Elementary Grades
KHP 380 Health Education in the Elementary School
KHP 382 Physical Education for Elementary School Teachers
MA 201 Mathematics for Elementary Teachers
MA 202 Mathematics for Elementary Teachers
PSY 100 Introduction to Psychology
GLY 160 Geology for Elementary Teachers
PHY 160 Physics and Astronomy for Teachers

Choose one of the following courses:
   HIS 580, PS 4560, APP 200, GEO 322,
   HIS 240

LIS 510 Children’s Literature and Related Materials or
   alternative (e.g., lower-division equivalent from community college)

Select two courses from the following (must be different from courses used in USP Electives):
   MA 310, MA 241, EDC 334, ENG 205, ENG 207,
   ENG 211, ENG 230, ENG 231, ENG 232, ENG 233,
   ENG 234, ENG 261, ENG 262, ENG 264, ENG 281,
   EDC/ENG 509

Free Elective

**Professional Education Requirements (44 hours)**

All of the following courses require admission to the Teacher Education Program:

*EDP 202 Human Development and Learning
*EPS 301 Education in American Culture
*EDC 329 Teaching Reading and Language Arts
EDP 303 Teaching Exceptional Learners in the Elementary Classroom
EDC 323 Classroom Management and Discipline
EDC 322 Elementary Practicum
EDC 326 Teaching Social Studies in the Elementary School
EDC 328 Teaching Science in the Elementary School
EDC 337 Teaching Mathematics in Elementary Schools

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EDC 339 Designing a Reading and Language Arts Program for the Elementary School .......................... 3
EDC 317 Introduction to Instructional Media .................... 1
EDS 447 Strategies for Including Students with Disabilities in the Elementary Classroom ....................... 2
EDC 433 Student Teaching in the Elementary School .............................................................. 12

*Students beginning their work in a public Kentucky community college may complete EDP 202 and a lower-division equivalent of EPE 301 before applying for admission to the Teacher Education Program at UK.

B.A. in Education with a major in HEALTH PROMOTION
(teacher certification program)

Requirements for Program

The Department of Kinesiology and Health Promotion offers undergraduate courses and degree programs in kinesiology (physical education) and health promotion. These programs support the UK educator preparation unit’s theme of Research and Reflection for Learning and Leading. The process of reflective decision-making is imbedded in the departmental philosophy that students learn best through experiencing. The Health Promotion Program is guided by the standards of the American Association of Health Education (AAHE) and the Kentucky New Teacher Standards.

The health promotion program ensures an understanding of and knowledge about the structure of the health promotion discipline through the content and methodology courses in sexuality education, drug education, human health and wellness, nutrition, and program planning in health education. The purpose of health promotion is to promote quality of life for all people. This area of study is interdisciplinary, extending into biology, psychology, sociology, and medicine. Health promotion generally focuses on the whole individual, including social and emotional dimensions, not just the physical.

The B.A. in Health Promotion requires completion of the following: (a) the University Studies Program; (b) specified course work in Program Related Studies and Professional Education; (c) the health promotion major; and (d) a minimum of 128 semester hours. Students wishing to pursue certification in health and kinesiology must follow the kinesiology program description.

Continuous Assessment

1. All students in the health promotion program are expected to meet the standards and rules for Admission, Retention, and Exit from Teacher Education Programs as set forth in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

2. The health promotion program simulates higher performance goals for high-performing students by offering several modes of performance. Examples are: (a) skills in performing physical activities; (b) skills in writing and oral presentations in theory courses; (c) computer technological skills in some courses; and (d) leadership skills demonstrated by high-performing students who serve as class leaders, peer tutors, and/or assistant instructors.

3. After admittance to the program, students not only must maintain a 2.50 GPA, they must continue to exhibit desirable professional characteristics to remain in the program. Students who demonstrate a lack of commitment, effort, professional behavior, knowledge, or teaching skills may be removed from the program until these characteristics are demonstrated.

Statement on Student Teaching

Students who are majoring in Health Promotion will enroll in:

KHP 371 Student Teaching in Health Education ........ 12

University Studies (39-53 hours)

*See University Studies Program section of this Bulletin for listing of allowable USP courses.

Program Related Studies Course Sequence (19 hours) Hours

*PSY 100 Introduction to Psychology ..................... 4
*SOC 101 Introduction to Sociology ....................... 3
*BIO 102 Human Ecology .................................. 3
*BIO 103 Basic Ideas of Biology ............................ 3
PGY 206 Elementary Physiology ........................................... 3

*May be taken for USP credit.

Professional Education Course Sequence (25 hours)

EDP 202 Human Development and Learning ........... 3
EDP 203 Teaching Exceptional Learners in Regular Classrooms .................................................... 3
EPE 301 Education in American Culture .................. 3
*EDC 317 Introduction to Instructional Media .......... 1
*KHP 430 Methods of Teaching Health Education .. 3
*KHP 371 Student Teaching in Health Education ... 12

*These courses require admission to the Teacher Education Program.

Majors and Minors (48-51 hours)

Plan I

Health Promotion Major (30 hours) and one or more university approved minors (18-21 hours). Note: University-approved minors outside of the College of Education must be planned with an advisor in the appropriate college if the student wishes to have the minor appear on his/her transcript.

Students wishing to pursue certification in both Health Promotion and Kinesiology must follow the Kinesiology major program description.

Major in Health Promotion (30 hours) Hours

KHP 190 First Aid and Emergency Care ................... 2
KHP 220 Sexuality Education ............................... 2
KHP 222 Drug Education ..................................... 2
KHP 230 Human Health and Wellness .................. 3
KHP 330 Planning and Implementing Health Education Programs .................................................................. 3
KHP 420G Physiology of Exercise .......................... 3
KHP 445 Introduction to Tests and Measurements ............................................................................ 3
KHP 509 Workshop in Health and Safety
(Experiential Health Education) .......................... 3
NFS 101 Human Nutrition and Wellness .............. 3

Choose at least six hours from the following courses:

KHP 240 Nutrition and Physical Fitness .................. 3
KHP 395 Independent Study in Kinesiology and Health Promotion .................................................... 3
*KHP 509 Workshop in Health and Safety ............. 1-3
BSC 331 Behavioral Factors in Health and Disease ... 3
FAM 252 Introduction to Family Science ............... 3
HSM 250 Introductory Epidemiology ..................... 3

*May be repeated under different topic names for up to three credit hours.

Other health related elective courses than the above list may be selected with permission of the Health Promotion faculty and must be relevant to the student’s professional preparation program.

Minor in Health Promotion (24 hours)
(not for teacher certification)

Hours

KHP 190 First Aid and Emergency Care .................. 2
KHP 220 Sexuality Education ............................... 2
KHP 222 Drug Education ..................................... 2
KHP 230 Human Health and Wellness .................. 3
KHP 330 Planning and Implementing Health Education Programs .................................................... 3
KHP 445 Introduction to Tests and Measurements .... 3
NFS 101 Human Nutrition and Wellness .............. 3

Choose at least six hours from the following electives:

KHP 395 Independent Study in Kinesiology and Health Promotion .................................................... 3
KHP 509 Workshop in Health and Safety ............. 1-3
KHP 535 School Health Dilemmas of Special Populations ............................................................... 3
BSC 331 Behavioral Factors in Health and Disease ... 3
FAM 252 Introduction to Family Science ............... 3
HSM 250 Introductory Epidemiology ..................... 3

Other health related elective courses than the above list may be selected with permission of the Health Promotion faculty and must be relevant to the student’s professional preparation program.

Minor in Dance

Requirements for Program

The Department of Kinesiology and Health Promotion offers undergraduate courses and degree programs in kinesiology (physical education) and health promotion. These programs support the College of Education’s theme of teacher as reflective decision maker. The process of reflective decision-making is imbedded in the departmental philosophy that students learn best through experiencing.

The minor in dance is for persons interested in dance who may wish to do graduate work in dance, apply dance principles to teaching dance in K-12 school settings, or in private studio work in dance. Persons interested in the dance minor should anticipate that it will take between two and a half to three years to complete the full set of courses, as each course is not taught every semester.

Dance Minor Requirements (22-24 hours)

KHP 147 Dance Foundations I ............................ 1
KHP 155 Principles of Conditioning ..................... 1
KHP 181 Modern Dance I ................................. 2
Program related studies course sequence; and

University Studies Program; (2) complete the Education, students must: (1) complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Math
MA 109 College Algebra
or
MA 110 Analytic Geometry and Trigonometry
Math ACT of 26 or above
Natural Sciences
BIO 102 Human Ecology
or
BIO 103 Basic Ideas of Biology
BIO 111 General Biology Laboratory
Social Sciences
PSY 100 Introduction to Psychology
SOC 101 Introduction to Sociology
Humanities
HIS 104/105 A History of Europe through the Mid-Seventeenth Century/From the Mid-Seventeenth Century to the Present
or
HIS 108/109 History of the United States Through 1865/ Since 1865
Pre-major Requirements Hours
*COM 181 Basic Public Speaking
*PSY 100 Introduction to Psychology
*SOC 101 Introduction to Sociology
IEC 120 Introduction to Early Childhood Education
*STA 200 Statistics: A Force in Human Judgment
Subtotal: Pre-major Hours

All students in Interdisciplinary Early Childhood Education must apply, and be admitted to, and be retained in a Teacher Education Program (TEP), and complete a state approved university teacher training program in Early Childhood Education to be able to apply for certification. Students who are interested in certification in Early Childhood Education need to meet with a certification officer in the College of Education prior to completing 60 semester hours to discuss state certification and TEP requirements. A minimum 2.5 cumulative GPA is required to be eligible to apply for admission to TEP. TEP applications will be reviewed for students who have completed, or will complete during the semester in which they apply, 60 semester hours, including EDP 202, EDS 375, FAM 255, and FAM 256 with a grade of C or better.

Major Requirements Hours
FAM 255 Child Development
FAM/IEC 256 Guidance Strategies for Working with Young Children
IEC 260 Curriculum Planning in Interdisciplinary Early Childhood Education
IEC 507 Assessment of Young Children
FAM 544 Cultural Diversity in American Children and Families
or
Cultural Diversity Course
EPE 301 Education in American Culture
IEC 552 Administration and Supervision in Interdisciplinary Early Childhood Education Programs

B.S. in Education with a major in INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

Requirements for Program

Early Childhood Education is an interdisciplinary program which will prepare educators to work with children, birth through age five, in public pre-primary classes and non-public institutions including day care, private preschool, and private kindergarten. The program is approved by the Kentucky Education Professional Standards Board to prepare graduates to seek a state teaching certificate in Interdisciplinary Early Childhood Education.

The faculty of the Interdisciplinary Early Childhood Education program are associated with the Department of Family Studies and the Department of Special Education and Rehabilitation Counseling. The faculty believe that teaching young children involves viewing children holistically, using structured behavioral approaches. They recognize that viewing children holistically requires considering all of the various settings of children’s environment (e.g., home, school, and neighborhood) as well as the reciprocal relationship between any two of the following variables: the immediate context the child is active in, the individual child, and all aspects of the child’s environment (including people). In the Interdisciplinary Early Childhood Education program, students will learn to apply behavioral principles for purposes of developing curricula, assessing child behavior, planning, implementing, and monitoring interventions, and assisting families. The program is guided by the standards of the National Association for the Education of Young Children, and the Division of Early Childhood of the Council For Exceptional Children.

To receive the B.S. degree in Education with a major in Interdisciplinary Early Childhood Education, students must: (1) complete University Studies Program; (2) complete the program related studies course sequence; and (3) complete requirements for the Interdisciplinary Early Childhood Education major, including required student teaching experiences and other practica. Completion of the program requires 128 credit hours. To be state-certified, candidates must also successfully complete all state-mandated testing requirements.

Continuous Assessment
1. All students in the interdisciplin ary early childhood education program are expected to meet the standards and rules for Admission, Retention, and Exit from Teacher Education Programs as set forth in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

2. Assessment at the Point of Entry to the IECE Program. The admission process provides the first point for formal assessment of the competencies outlined in the Initial Certification Program Folio for the program. Students who apply for admission must (a) meet the requirements for admission to the Teacher Education Program, and (b) be able to articulate their philosophy of teaching and document their experiences with young children in an initial portfolio and an entrance interview.

3. On-going Assessment. Once a student is admitted to the program, he/she meets with an advisor to plan the remainder of the program. Prior to the student teaching semester, the student must present a portfolio that documents his/her progress toward meeting program competencies. The portfolio should include the following:

B. S. in Education with a major in INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION

Requirements for Program

Early Childhood Education is an interdisciplinary program which will prepare educators to work with children, birth through age five, in public pre-primary classes and non-public institutions including day care, private preschool, and private kindergarten. The program is approved by the Kentucky Education Professional Standards Board to prepare graduates to seek a state teaching certificate in Interdisciplinary Early Childhood Education.

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To receive the B.S. degree in Education with a major in Interdisciplinary Early Childhood Education, students must: (1) complete University Studies Program; (2) complete the program related studies course sequence; and (3) complete requirements for the Interdisciplinary Early Childhood Education major, including required student teaching experiences and other practica. Completion of the program requires 128 credit hours. To be state-certified, candidates must also successfully complete all state-mandated testing requirements.

Continuous Assessment
1. All students in the interdisciplin ary early childhood education program are expected to meet the standards and rules for Admission, Retention, and Exit from Teacher Education Programs as set forth in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

2. Assessment at the Point of Entry to the IECE Program. The admission process provides the first point for formal assessment of the competencies outlined in the Initial Certification Program Folio for the program. Students who apply for admission must (a) meet the requirements for admission to the Teacher Education Program, and (b) be able to articulate their philosophy of teaching and document their experiences with young children in an initial portfolio and an entrance interview.

3. On-going Assessment. Once a student is admitted to the program, he/she meets with an advisor to plan the remainder of the program. Prior to the student teaching semester, the student must present a portfolio that documents his/her progress toward meeting program competencies.

4. Exit Assessment. At the exit assessment, students must document that they have met all program competencies through a final review of their portfolio and the successful completion of student teaching in an appropriate school placement for young children with and without disabilities.

Statement on Student Teaching

Student teaching in the Interdisciplinary Early Childhood Education program is 16 weeks. Students will enroll in:

IEC 411 Student Teaching in Interdisciplinary Early Childhood Education

Subtotal: Student Teaching Hours

Degree Requirements

Students in Interdisciplinary Early Childhood Education must complete the following:

1. Complete University Studies requirements.

2. Complete 128 credit hours with a minimum grade-point average of 2.5 (required for teacher certification).

3. Complete the required curriculum in the major program.

4. All students majoring in Interdisciplinary Early Childhood Education must apply and be admitted to the professional Teacher Education Program in order to complete the program.

University Studies Requirements Hours

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Math
MA 109 College Algebra
or
MA 110 Analytic Geometry and Trigonometry
Math ACT of 26 or above
Natural Sciences
BIO 102 Human Ecology
or
BIO 103 Basic Ideas of Biology
BIO 111 General Biology Laboratory
Social Sciences
PSY 100 Introduction to Psychology
SOC 101 Introduction to Sociology
Humanities
HIS 104/105 A History of Europe through the Mid-Seventeenth Century/From the Mid-Seventeenth Century to the Present
or
HIS 108/109 History of the United States Through 1865/Since 1865
Pre-major Requirements Hours
*COM 181 Basic Public Speaking
*PSY 100 Introduction to Psychology
*SOC 101 Introduction to Sociology
IEC 120 Introduction to Early Childhood Education
*STA 200 Statistics: A Force in Human Judgment
Subtotal: Pre-major Hours

All students in Interdisciplinary Early Childhood Education must apply, and be admitted to, and be retained in a Teacher Education Program (TEP), and complete a state approved university teacher training program in Early Childhood Education to be able to apply for certification. Students who are interested in certification in Early Childhood Education need to meet with a certification officer in the College of Education prior to completing 60 semester hours to discuss state certification and TEP requirements. A minimum 2.5 cumulative GPA is required to be eligible to apply for admission to TEP. TEP applications will be reviewed for students who have completed, or will complete during the semester in which they apply, 60 semester hours, including EDP 202, EDS 375, FAM 255, and FAM 256 with a grade of C or better.

Major Requirements Hours
FAM 255 Child Development
FAM/IEC 256 Guidance Strategies for Working with Young Children
IEC 260 Curriculum Planning in Interdisciplinary Early Childhood Education
IEC 507 Assessment of Young Children
FAM 544 Cultural Diversity in American Children and Families
or
Cultural Diversity Course
EPE 301 Education in American Culture
IEC 552 Administration and Supervision in Interdisciplinary Early Childhood Education Programs
Continuous Assessment

1. All students in the kinesiology program are expected to meet the standards and rules for Admission, Retention, and Exit from Teacher Education Programs as set forth in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

2. The kinesiology program stimulates higher performance goals for high-performing students by offering several modes of performance. Examples are: (a) skills in performing physical activities; (b) skills in writing and oral presentations in theory courses; (c) computer technological skills in some courses; and (d) leadership skills demonstrated by high-performing students who serve as class leaders, peer tutors, and/or assistant instructors.

3. After admittance to the program, students not only must maintain a 2.50 GPA, they must continue to exhibit desirable professional characteristics to remain in the program. Students who demonstrate a lack of commitment, effort, professional behavior, knowledge, or teaching skills may be removed from the program until these characteristics are demonstrated.

Statement on Student Teaching

Students who are majoring in kinesiology will enroll in:

KHP 369 Student Teaching in Physical Education ............................................... 12

Students who are completing a major in both kinesiology and health promotion will enroll in:

KHP 369 Student Teaching in Physical Education ... 6 and
KHP 371 Student Teaching in Health Education ..... 6

In this situation, student teaching time will be divided between the high school, middle school, and elementary grades, with student teaching supervision occurring cooperatively between the kinesiology and health promotion faculty.

University Studies (39-53 hours)

*See University Studies Program section of this Bulletin for listing of allowable USP courses.

Program Related Studies Sequence (19 hours)

Hours

*BIO 102 Human Ecology ........................................ 3
*BIO 103 Basic Ideas of Biology .............................. 3
*PSY 100 Introduction to Psychology ......................... 4
*SOC 101 Introduction to Sociology ........................ 3
ANA 209 Principles of Human Anatomy .................... 3
PGV 206 Elementary Physiology ................................ 3

*May be taken for USP credit.

Professional Education Course Sequence (29 hours)

Hours

EDP 202 Human Development and Learning ............... 3
EDP 203 Teaching Exceptional Learners in Regular Classrooms ........................................... 3

KHP 263 Curriculum and Developmental
Sports Skills in the Elementary School .................. 3
*KHP 344 Physical Education in the Secondary School ................................................. 3
*KHP 360 Physical Education in the Elementary School ................................................. 3
*KHP 361 Field Experiences ........................................ 1
*KHP 369 Student Teaching in Physical Education .... 12
*EDC 317 Introduction to Instructional Media ............. 1
*These courses require admission to the Teacher Education Program.

Majors and Minors (52-68 hours)

Plan 1
Kinesiology Major (34-35 hours) and Health Promotion Major (33 hours)

Plan 2
Kinesiology Major (34-35 hours) and one or more university approved minors (18-21 hours).

Note: University-approved minors outside of the College of Education must be planned with an advisor in the appropriate college if the student wishes to have the minor appear on his/her transcript.

Major in Kinesiology (34-35 hours)

Performance Area Courses (11-12 hours)

Hours

KHP 147 Dance Foundations I .................................. 1
KHP 154 Dance Foundations II ................................ 1
KHP 156 Educational Gymnastics ............................ 1
KHP 157 Track and Field ......................................... 1
KHP 210 Introduction to Fitness (Subtitle required) ....... 2
KHP 250 Team Sports (Subtitle required) ................... 2
KHP 260 Individual Sports (Subtitle required) .............. 2
KHP Service Program Elective – choose one of the following:

KHP 147 Techniques of Swimming ............................ 1
KHP 162 Outdoor Education Through Activities ........... 1
KHP 252 Water Safety Leadership ............................. 2

Content Area Courses (23 hours)

Hours

KHP 200 The History and Philosophy of Physical Education and Sport .................................. 3
KHP 300 Psychology and Sociology of Physical Education and Sport .................................. 3
KHP 390 Dance Activities in the Elementary School 2
KHP 420 Physiology of Exercise ............................... 3
KHP 445 Introduction to Tests and Measurements ....... 3
KHP 515 Anatomical and Mechanical Kinesiology .... 3
KHP 560 Motor Development in Infants and Young Children ........................................ 3
KHP 577 Adapted Physical Education ......................... 3

Major in Health Promotion (33 hours)

Hours

KHP 410 Methods of Teaching Health Education ......... 3
KHP 190 First Aid and Emergency Care .................... 2
KHP 220 Sexual Education ......................................... 2
KHP 222 Drug Education ............................................ 2
KHP 230 Human Health and Wellness ....................... 3
KHP 330 Planning and Implementing Health Education Programs ........................................ 3
KHP 445 Introduction to Tests and Measurements ....... 3
NFS 101 Human Nutrition and Wellness .................... 3
KHP 509 Workshop in Health and Safety
(Experiential Health Education) ............................... 3
Choose at least nine hours from the following courses:

- KHP 240 Nutrition and Physical Fitness 3
- KHP 395 Independent Study in Kinesiology and Health Promotion 1-3
- *KHP 509 Workshop in Health and Safety 1-3
- BSC 331 Behavioral Factors in Health and Disease 3
- FAM 252 Introduction to Family Science 3
- HSM 250 Introductory Epidemiology 3

*May be repeated under different topic names for up to three credit hours.

### B.A. in Education with a major in KINESIOLOGY

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<th>(Non-Teacher Certification Program)</th>
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#### Requirements for Program

The Department of Kinesiology and Health Promotion offers undergraduate courses and degree programs in kinesiology (physical education) and health promotion. The kinesiology program (non-teacher certification) leads to employment opportunities in the athletics and sports industries. The kinesiology program is guided by the standards of the National Association for Sport and Physical Education (NASPE).

The B.A. in Kinesiology requires completion of: (a) the University Studies Program; (b) specified course work in program related studies, professional kinesiology requirements, education course requirements; (c) practicum in recreation; (d) specified course work in exercise science; and (e) a minimum of 128 semester hours.

#### Continuous Assessment

1. The kinesiology program stimulates higher performance goals for high-performing students by offering several modes of performance: (a) skills in performing physical activities; (b) skills in writing and oral presentations in theory courses; (c) computer technological skills in some courses; and (d) leadership skills by high-performing students are often used in classes through class leaders, peer tutors, and/or assistant instructors.

2. Students must maintain a 2.0 GPA for retention in and exit from the program with a bachelor’s degree. After 60 hours, students must be admitted to advanced standing. Students who demonstrate a lack of commitment, effort, professional behavior, knowledge, or disciplinary skills, or who have not maintained the necessary GPA overall and in the major courses may be removed from the program and the college.

#### University Studies (39-53 hours)

*See University Studies Program section of this Bulletin for listing of allowable USP courses.

**NOTE:** A calculus course is a prerequisite for STA 291 Statistical Method, which is a requirement in this program.

#### Program Related Course Requirements (17 hours)

*ANA 209 Principles of Human Anatomy 3
*PGY 206 Elementaray Physiology 3

**NFS 101 Human Nutrition and Wellness 3
**PSY 100 Introduction to Psychology 4

CS 101 Introduction to Computing I or CS 115 Introduction to Computer Programming 3

KHP 120 Service Course (Weight Training) 1

*Prerequisite: biology or zoology course(s)
*May be used for USP credit.

#### Professional Kinesiology Requirements (32 hours)

**Professional Activity Courses**

- KHP 210 Introduction to Fitness (Subtitle required) 2
- KHP 157 Track and Field 1

Complete one of the following:

- KHP 250 Team Sports (Subtitle required) 2
- KHP 260 Individual Sports (Subtitle required) 2

**Theory Courses**

- KHP 190 First Aid and Emergency Care 2
- KHP 200 The History and Philosophy of Physical Education and Sport 3
- KHP 230 Human Health and Wellness 3
- KHP 300 Psychology and Sociology of Physical Education and Sport 3
- KHP 546 Physical Education Workshop 1
- KHP 420G Physiology of Exercise 3
- KHP 445 Introduction to Tests and Measurements 3
- KHP 515 Anatomical and Mechanical Kinesiology 3
- KHP 573 Management of Sport 3
- KHP 240 Nutrition and Physical Fitness 3

**Education Courses** (6 hours)

Select six hours from the following list:

- EDP 202 Human Development and Learning 3
- EDP 203 Teaching Exceptional Learners in Regular Classrooms 3
- EPE 301 Education in American Culture 3
- EDU 305 Contemporary Issues Facing the At-Risk School-Age/Adolescent Child 3
- EDS 375 Introduction to Education of Exceptional Children 3

**Exercise Science Courses** (32 hours)

- CHE 104 Introductory General Chemistry 3
- CHE 106 Introduction to Inorganic, Organic and Biochemistry without Laboratory 3
- PHY 211 General Physics 5
- STA 291 Statistical Method 3
- KHP 340 Athletic Training 2
- PGY 412G Principles of Human Physiology Lectures 4
- KHP 377 Practicum in Kinesiology and Health Promotion 6

plus six hours from the following courses:

- BAE 103 Energy in Biological Systems 2
- CS 215 Introduction to Program Design, Abstraction, and Problem Solving 4
- KHP 350 Strength and Conditioning for Sports 3
- KHP 450 Introduction to Exercise Testing and Prescription 3
- KHP 546 Physical Education Workshop 1-3
- KHP 547 Psychology of Sport and Physical Activity 3
- KHP 560 Motor Development in Infants and Young Children 3
- KHP 579 Adapted Physical Education 3

**Electives**

Electives may vary to meet the 128 hour graduation requirement.

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### B.A. in Education with a major in LEARNING AND BEHAVIOR DISORDERS (LBD)

#### Requirements for Program

Two undergraduate programs are offered in special education: (1) learning and behavior disorders (LBD) and moderate and severe disabilities (MSD). Both of these programs support the UK educator preparation unit's theme of Research and Reflection for Learning and Leading. Special education teachers are prepared to assess, plan, and teach based on what they learn from their students and to conduct continuous self-reflection in order to improve their teaching. The standards and competencies on which the LBD and MSD programs are based are those prescribed by The Council for Exceptional Children and The Kentucky New Teacher Standards.

The B.A. program in Learning Behavior Disorders, P-12, prepares students to teach individuals with disabilities (including learning disabilities, emotional/behavioral disorders, mild mental disabilities, other health impaired, and physical disabilities) in primary through twelfth grades. (Dual option programs, in which students are certified in Early Elementary grades P-5 or Middle School 5-9 in addition to LBD, are in the process of being suspended.) Advising early in the B.A. program is essential in order to complete the requirements in a timely fashion.

#### Continuous Assessment

1. All students in the LBD program are expected to meet the standards and rules for Admission, Retention and Exit from the Teacher Education Program (TEP) as set forth in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

2. **Assessment at the Point of Entry to the LBD Program.** The admission process provides the first point for formal assessment of the competencies outlined in the LBD program. Students applying for admission must: (a) meet the requirements for TEP admission; (b) be enrolled in or have successfully completed a special education survey course (EDS 375) and practicum (EDS 357); (c) be able to articulate, orally and in writing, their philosophy of teaching and their experiences with persons with disabilities; and (d) prepare an acceptable extemporaneous writing sample. Entry level assessments will be conducted by program faculty representatives through analysis of TEP application materials, portfolio entries, and an entrance interview.

3. **On-going Assessment.** Once a student is admitted to the TEP, he/she meets with an advisor from the LBD program faculty to plan the remainder of the program. Prior to the student-teaching semester, the student must present a portfolio that documents his/her progress toward meeting program competen-
cies in the courses completed up to that point. Mid-point assessments will be conducted by program faculty representatives through analysis of transcripts, and portfolio entries, as well as performance in practice courses.

4. Exit Assessment. At the exit assessment, students must document that they have met all program competencies. Exit assessments will be conducted by program faculty representatives through a formal analysis of transcripts, student portfolios, and student teaching evaluations. In addition each student must earn passing scores on the required PRAXIS exams.

Statement on Student Teaching

Student teaching in the LBD program is sixteen weeks in an LBD classroom; for those finishing the soon-to-be-suspended elementary or middle school dual options, students split the sixteen weeks evenly between an elementary or middle school setting and an LBD classroom. All placements are to be completed in the same semester.

Special Education/LBD – Single Certification (P-12) Option

University Studies Component (34-53 hours)

See the University Studies Program section of this Bulletin for a listing of allowable courses in each area.

Program Related Studies (52 hours)

FAM 357 Contemporary Adolescence

or

EDS 522 Children and Families .................................. 3
EDS 547 Collaboration and Inclusion in School and Community Settings .................................. 3
KHP 190 First Aid and Emergency Care .......................... 2
FAM 554 Working With Parents .................................... 3
GLY 160 Geology for Elementary Teachers ..................... 3
PHY 160 Physics and Astronomy for Teachers ................... 3
MA 201 Mathematics for Elementary Teachers ................. 3
MA 202 Mathematics for Elementary Teachers ................. 3

*PSY 100 Introduction to Psychology ............................ 4

*One additional social science course for depth ................. 3
EDP 202 Human Development and Learning .................... 3
EPE 301 Education in American Culture ......................... 3
EDS 357 Initial Practicum in Special Education .......... 1
EDS 375 Introduction to Education of Exceptional Children . 3
EDS 513 Legal Issues in Special Education .................... 3
EDS 514 Instructional Technology in Special Education .......... 3
EDS 516 Principles of Behavior Management and Instruction ........................................ 3
EDS 517 Assistive Technology in Special Education ............ 3

*PSY 100 and the additional social science course may be used to fulfill the USP electives requirement.

Professional Education Requirements (33 hours)

EDS 528 Educational Assessment for Students with Mild Disabilities .................................. 3
EDS 529 Educational Programming for Students with Mild Disabilities .................................. 3
EDS 589 Field Experiences: Mild Disabilities ................... 3
EDS 459 Student Teaching in Special Education ............. 12

LIS 510 Children’s Literature and Related Materials  
or
LIS 514 Literature and Related Media for Young Adults 
or
IEC 512 Language and Literacy for Young Children ........................................ 3
EDC 329 Teaching Reading and Language Arts .................. 3
EDC 337 Teaching Mathematics in Elementary Schools ........... 3
EDC 339 Designing a Reading and Language Arts Program for the Elementary School .......... 3

Electives

Variable for total program of 128 hours.

Special Education/LBD – Early Elementary Education Option

(For students already pursuing this option, please consult Early Elementary Education program faculty for Elementary Education course advising.)

University Studies Component (43-57 hours)

Basic Skills

A. MA 109 or MA 110 or Math ACT 26 or UK by-pass exam or any calculus course ............ 0-3
B. Two semesters foreign language or two years high school foreign language ............. 0-8

Inference and Communication Skills

A. Calculus (MA 123) or STA 200 plus PHI 120 or PHI 320 ........................................ 3-6
B. Writing (ENG 104) .................................................. 4
C. Oral Communication (COM 181) .................................. 3

Disciplinary Requirements

A. Natural Sciences

BIO 102 and BIO 103 and BIO 111 .................................. 7
B. Social Sciences

Select a total of two different courses from among anthropology, economics, geography, political science, and sociology. For example, choose one sociology course and one anthropology course for a total of six credits from two different disciplines. ........................................ 6
C. Humanities ................................................................ 12
HIS 104, HIS 105, ENG 261 and ENG 262 or HIS 108, HIS 109, ENG 334 and ENG 335
These courses will fulfill the Electives requirement as well.

Cross-Cultural ............................................................ 3

One course from anthropology, geography, or political science. The course must be in a discipline other than those chosen to fulfill the requirements for the disciplinary Social Sciences requirements.

Electives

See notation under Humanities above.

Program Related Studies (27-30 hours)

MUS 260 Teaching Music in the Elementary Grades I (fall only) ........................................ 2
MUS 261 Teaching Music in the Elementary Grades II (spring only) ................................... 2
MA 201 Mathematics for Elementary Teachers (prereq: MA 109) .................................... 3
MA 202 Mathematics for Elementary Teachers (spring and summer only) ....................... 3
MA 202 has a prerequisite of a grade of C or better in MA 201. Also required is a course in logic [e.g. PHI 120], or a course in calculus (e.g. MA 123)
PSY 100 Introduction to Psychology .................................. 4

PHI 130 Introduction to Philosophy: Knowledge and Reality *

Professional Education Requirements (38 hours)

General Courses

EDP 302 Human Development and Learning .................. 3
EPE 301 Education in American Culture ......................... 3

Early Elementary Professional Introduction Courses

LIS 510 Children’s Literature and Related Materials  
or
LIS 514 Literature and Related Media for Young Adults 
or
IEC 512 Language and Literacy for Young Adults ............... 3

Students with Mild Disabilities  
or
EDS 357 Initial Practicum in Special Education .................. 3
EDS 375 Introduction to Education of Exceptional Children ...... 3
EDS 513 Legal Issues in Special Education .................... 3
EDS 514 Instructional Technology in Special Education .......... 3

*If PHI 120 was not taken to fulfill USP Inference and Communication Skills area.

Social Science ............................................................ 3

Take one additional social science course from one of the same social science disciplines taken in USP Disciplinary Requirements Social Sciences area.

Professional Education Requirements (38 hours)

General Courses

EDP 302 Human Development and Learning .................. 3
EPE 301 Education in American Culture ......................... 3

Early Elementary Professional Introduction Courses

LIS 510 Children’s Literature and Related Materials  
or
LIS 514 Literature and Related Media for Young Adults 
or
IEC 512 Language and Literacy for Young Adults ............... 3

Students with Mild Disabilities  
or
EDS 357 Initial Practicum in Special Education .................. 3
EDS 375 Introduction to Education of Exceptional Children ...... 3
EDS 513 Legal Issues in Special Education .................... 3
EDS 514 Instructional Technology in Special Education .......... 3

*PHI 130 Introduction to Philosophy: Knowledge and Reality or

Early Elementary Professional Block

(This block of courses is taken during the same semester.)

EDC 322 Elementary Practicum................................. 3
EDC 326 Teaching Social Studies in the Elementary School ........................................... 3
EDC 328 Teaching Science in the Elementary School .................................................. 3
EDC 337 Teaching Mathematics in the Elementary Schools ........................................... 3
EDC 339 Designing a Reading and Language Arts Program for the Elementary School .......... 3

Early Elementary Student Teaching

EDC 433 Student Teaching in the Elementary School  
(To be completed the same semester as LBD student teaching) ............................................ 6

Area of Specialization: Special Education Requirements (34 hours)

Special Education Core Courses

EDS 357 Initial Practicum in Special Education .................. 1
EDS 375 Introduction to Education of Exceptional Children .................. 3

[Must have earned a C or better in the above courses before admittance to TEP.]

EDS 513 Legal Issues in Special Education .................... 3
EDS 514 Instructional Technology in Special Education ........... 3
EDS 516 Principles of Behavior Management and Instruction ....................................... 3
EDS 517 Assistive Technology in Special Education ................ 3
EDS 522 Children and Families .................................. 3

LBD Area Requirement Courses

EDS 528 Educational Assessment for Students with Mild Disabilities .................. 3
EDS 529 Educational Programming for Students with Mild Disabilities .................. 3
EDS 589 Field Experiences: Mild Disabilities ................... 3
EDS 459 Student Teaching in Special Education  
(To be completed the same semester as Elementary student teaching) ............................................ 6
Special Education/LBD – Middle School Education Option
(For students already pursuing this option, please consult Middle School Education program faculty for Middle School course advising.)

University Studies Component (39-51 hours)
See the University Studies Program section of this Bulletin for a listing of allowable courses in each area.

Program Related Studies (13 hours)
MA 201 Mathematics for Elementary Teachers .......... 3
MA 202 Mathematics for Elementary Teachers .......... 3
PSY 100 Introduction to Psychology ....................... 4
PHY 160 Physics and Astronomy for Teachers .......... 3

Professional Education Requirements (28 hours)

General Courses
EDP 202 Human Development and Learning ............. 3
EPE 301 Education in American Culture .................... 3

Middle School Courses
(All the following courses require admission to the TEP)
EDC 317 Introduction to Instructional Media .......... 1
EDC 329 Teaching Reading and Language Arts .......... 3
EDC 341 Middle School Curriculum and Instruction ........ 3
EDC 330 Designing a Reading and Language Arts Program for the Middle School 3
EDC 343 The Early Adolescent Learner: Practicum ........ 3

Middle School Special Methods Courses
Select one of the following to match the student’s chosen Middle School Area of Specialization.
EDC 345 Teaching Mathematics in the Middle School .......... 3
EDC 346 Teaching Social Studies in the Middle School .......... 3
EDC 347 Teaching English and Communication in the Middle School .......... 3
EDC 348 Teaching Science in the Middle School .......... 3
EDC 349 Student Teaching in the Middle School
(To be completed the same semester as LBD student teaching) ......................................................... 6

Middle School Content Area Specialization (24-34 hours)
Students wishing to be certified as Middle School teachers in addition to Special Education/LBD must select a content area specialization from English and Communication, Mathematics, Social Studies, or Science.

English and Communication (30 hours)
NOTE: The Middle School English and Communication area of specialization is currently under revision. Students should work closely with an advisor in planning course work in this section. In addition, the Middle School English and Communication area of specialization must be at least thirty hours, including one course in adolescent literature.

Required
*COM 181 Basic Public Speaking ........................... 3
*COM 252 Introduction to Interpersonal Communication ................................................................. 3
*ENG 335 Survey of American Literature II ............. 3
(new American Literature course may be substituted)
ENG 509 Composition for Teachers (fall only) .......... 3

Select three courses from the following group:
NOTE: Students may work with an advisor to select additional literature courses beyond those listed in this section.
CLA 261 Literary Masterpieces of Greece and Rome . 3
ENG 211 Introduction to Linguistics I .................... 3
ENG 301 Style for Writers or
ENG 401 Special Topics in Writing
(Subtitle required) or
ENG 306 Introduction to Professions in Writing .... 3
Select two courses beyond University Studies in theatre, journalism, or English as a second language ......... 6
Six of these hours can be counted from University Studies.

Mathematics (24-25 hours)
The requirements for students choosing mathematics as an area of specialization are based on standards developed by the National Council of Teachers of Mathematics, KERA Goals and Academic Expectations, and the Core Content for Assessment. The NCTM standards for middle grades include four common threads (reasoning, communication, problem solving, and connections) as well as content area standards of number, computation and estimation, probability, statistics, algebra, geometry, and measurement. Kentucky’s Goals and Academic Expectations and the Core Content for Assessment focus mathematics instruction on seven core areas: number, mathematical procedures, mathematical structure, measurement, space and dimensionality, change, and data.

Required
MA 201 Mathematics for Elementary Teachers .......... 3
MA 202 Mathematics for Elementary Teachers .......... 3
CS 101 Introduction to Computing I ...................... 3
MA 123 Elementary Calculus and Its Applications or
MA 113 Calculus I .............................................. 3-4
**STA 291 Statistical Method .............................. 3
MA 310 Mathematical Problem Solving for Teachers ................................................................. 3
MA 341 Topics in Geometry (fall only) .................. 3
MA 162 Finite Mathematics and Its Applications .................... 3
*Up to six credits may be counted from University Studies
**If STA 200 was taken to fulfill Inference and Communication
Skills of University Studies, STA 291 is still required.

Science (31-34 hours)
The content area preparation required for students in the middle school education program is based on the standards adopted by the National Science Teacher’s Association as well as Kentucky’s Core Content for Science Assessment and New Teacher Standards. It is important that science teachers have strong content preparation in the sciences. This is needed to communicate modes of scientific inquiry, select appropriate learning experiences, guide students in their early scientific efforts, and help students apply scientific knowledge and skills in their daily lives.

Required
BIO 150 Principles of Biology I ............................ 3
BIO 151 Principles of Biology Laboratory I .............. 2
BIO 152 Principles of Biology II .......................... 3
BIO 325 Introductory Ecology .............................. 4

Select one of the following sequences in Chemistry, Geology, and Physics to complete 9-10 hours:

Sequence 1
CHE 105 General College Chemistry I .................. 3
CHE 107 General College Chemistry II .................. 3
CHE 115 General Chemistry Laboratory ................ 3

Sequence 2
GLY 220 Principles of Physical Geology ................ 4
GLY 230 Foundations of Geology I ...................... 3
Elective in Earth Science .................................... 3

Sequence 3
PHY 211 General Physics .................................. 5
PHY 213 General Physics .................................. 5

In addition, students must complete a minimum of five hours in each of the two physical sciences remaining. These five hours must include laboratory work in each area. Six credits total can be counted from University Studies. Students who wish to use Physics as the science for one five hour block, may also choose the sequence:
PHY 151, Introduction to Physics; PHY 152, Introduction to Physics; and PHY 153, Laboratory for Middle School Teachers.

Social Studies (33 hours)
The middle school social studies teacher preparation program is guided by two principles: First, a commitment to continuous improvement based on reflection, evaluation, and on-going research; second, a commitment to peer collaboration as a source of professional growth. The program is guided by the National Council for Social Studies document, Expectations of Excellence, and the Kentucky New Teacher Standards.

Area 1 – World Regional Geography and Cultural Anthropology (9 hours)
Required
GEO 152 Regional Geography of the World ............. 3
ANT 241 Origins of Old World Civilization ............. 3
Select one from the following courses:
ANT 242 Origins of New World Civilization ............. 3
GEO 172 Human Geography .............................. 3
GEO 160 Lands and Peoples of the Non-Western World ......................................................... 3

Area 2 – World History (9 hours)
Select nine hours from the following courses:
HIS 104 A History of Europe Through the
Mid-Seventeenth Century .................................... 3
HIS 295 East Asia to 1800 ................................. 3
HIS 254 History of Sub-Saharan Africa ................. 3
HIS 206 History of Colonial Latin America, 1492 to 1810 ..................................................... 3
HIS 247 History of Islam and Middle East Peoples, 500-1250 A.D. ........................................... 3
HIS 248 History of Islam and Middle East Peoples, 1250 to the Present ....................................... 3
HIS 385 History of Russia to 1825 ........................ 3

Area 3 – American History (9 hours)
While most students will take HIS 108 and 109, those who had either AP American history or received an A in their high school American history course, should be advised to select courses above the 100 level.

Select nine hours from the following courses:
HIS 108 History of the United States
Through 1865 ..................................................... 3
HIS 109 History of the United States Since 1865 .......... 3
HIS 260 African American History to 1865 .......... 3
HIS 265 History of Women in America ................. 3
HIS 465 Emergence of Modern America, 1877-1917 ................................................................. 3

Area 4 – Sociology, Political Science and Economics Electives (6 hours)
Students must select six hours from one of the following disciplines: sociology, political science or economics. At least three of the hours must be at the 300 level or above. Six credits total can be counted towards the Social Studies subject area from University Studies.

Courses Required for the LBD Program (34 hours)

Special Education Core Courses
EDS 357 Initial Practicum in Special Education ...... 1
EDS 375 Introduction to Education of Exceptional Children ......................................................... 3
College of Education

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[Must have earned a C or better in the above courses before admittance to TEP.]
EDS 513 Legal Issues in Special Education .......................... 3
EDS 514 Instructional Technology in Special Education .................. 3
EDS 516 Principles of Behavior Management and Instruction ................. 3
EDS 517 Assistive Technology in Special Education ......................... 3
EDS 522 Children and Families ............................................ 3

**LBDM Area Requirement Courses**
EDS 529 Educational Assessment for Students with Mild Disabilities .......... 3
EDS 529 Educational Programming for Students with Mild Disabilities .......... 3
EDS 589 Field Experiences: Mild Disabilities .................................. 3
EDS 459 Student Teaching in Special Education .......................... 6
(To be completed the same semester as Middle School student teaching) ......................... 6

**Electives**
Variable for total program of 128 hours.

**B.A. in Education with a major in MIDDLE SCHOOL EDUCATION**

**Program Description**
The Middle School Teacher Education Program supports the UK educator preparation unit’s theme of Research and Reflection for Learning and Leading. The program emphasizes the development of professionally trained specialists in teaching early adolescents. As such, the program models team teaching and collaborative learning. Active learning experiences are emphasized, as are real-world connections. Throughout the program, students are encouraged to consider their present position and make plans for improvement. Students are urged to gather data continuously and to use this data in planning effective instruction. Students are required to provide questions for reflection when writing lessons they do not teach and to provide reflective summaries as part of lesson plans which are delivered to students. Students are provided time and resources to revise and improve curricular materials they develop within the program. Students assess their own progress through the program’s curriculum, preparing them for the continuous self-assessment required of practicing professionals.

To receive the B.A. degree in Middle School Education, students must: (1) complete the University Studies Program; (2) complete all required program-related studies and the professional education course sequence; and (3) complete the content area requirements in each of two areas of specialization. Available content specialization areas are: English and Communication, Mathematics, Science, Social Studies, and Special Education/LBD.

**Continuous Assessment**
1. All middle school education students are expected to meet the standards and rules for Admission, Retention and Exit from Teacher Education Programs as set forth in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

2. **Assessment at the Point of Entry to the Middle School Program.** The admission process provides the first point for formal assessment of the competencies outlined by the standards documents which guide the middle school education program. Basic skills standards must be met and students must be making satisfactory progress toward professional and content area proficiency in order for students to win admission

3. **On-going Assessment.** Once a student is admitted to the program, he/she meets with an advisor to plan the remainder of the program. The focus of this initial advising session is to begin a professional development plan which ensures that all standards will be met by program exit.

4. **Exit Assessment.** At the exit assessment, students must show competency in all relevant standard areas. This is done through a final review of the eligibility portfolio, review of information provided by the cooperating teacher and university supervisor, and documentation of remediation of any weaknesses noted at the formal review in the methods semester.

**Statement on Student Teaching**
Student teaching in middle school education is 16 weeks. Middle school certification requires students to be certifiable in two academic subject areas, which requires two student teaching placements. Students seeking both Middle School and Special Education/LBD certification will register for:

- EDC 349 Student Teaching in the Middle School .......................... 6
- EDS 459 Student Teaching in Special Education .......................... 6

**University Studies Component (39-53 hours)**

**Note:** See the University Studies Program section of this Bulletin for a listing of allowable courses in each area below.

**Basic Skills**
A. MA 109 or Math ACT 26 or UK by-pass exam or any calculus course ......... 0-4
B. Two semesters foreign language or two years high school foreign language ......... 0-8

**Inference and Communication Skills**
A. Any calculus course or STA 200 and PHI 120 or 320 .......................... 3-6
B. ENG 104 ......................................................... 4
C. Oral Communication .................................................. 3

**Disciplinary Requirements**
A. Natural Sciences .................................................. 6
B. Social Sciences .................................................. 6
C. Humanities ....................................................... 6

**Cross-Cultural Requirements** ........................................ 3
**Electives** ......................................................... 6

**Program Related Studies (4-13 hours)**
PSY 100 Introduction to Psychology ........................................ 4
Additional Program Related Studies only for students seeking both Middle School and Special Education/LBD certification:

MA 201 Mathematics for Elementary Teachers .......................... 3
MA 202 Mathematics for Elementary Teachers .......................... 3
PHY 180 Physics and Astronomy for Teachers .......................... 3

**Professional Education Courses (40 hours)**
The National Middle School Association (NMSA) describes six broad areas of competence for middle grades teachers. These are: (1) early adolescent development, (2) middle grades curriculum, (3) middle grades instruction, (4) middle grades school organization, (5) families and community relations, and (6) middle grades teaching roles. With the support of a liberal arts foundation provided by the University Studies requirements and the content area knowledge provided by the requirements detailed above, the professional education requirements of the program endeavor to provide a firm foundation in each of these six areas.

*EDP 202 Human Development and Learning ...................... 3
*EDP 203 Teaching Exceptional Learners in Regular Classrooms .......... 3
*EPE 301 Education in American Culture ............................. 3

**All of the following courses require admission to the teacher education program:**
EDC 317 Introduction to Instructional Media .......................... 1
*EDC 329 Teaching Reading and Language Arts (EDC 329 is a prerequisite to EDC 330) .................. 3
EDC 341 Middle School Curriculum and Instruction (spring only) ................. 3
*EDC 330 Designing a Reading and Language Arts Program for the Middle School (fall only) .......... 3
*EDC 343 Early Adolescent Learner: Practicum (fall only) .................... 6
*Special Methods Courses in TWO Areas of Specialization (fall only) ............ 6

Choose from:
- EDC 345 Teaching Mathematics in the Middle School
- EDC 346 Teaching Social Studies in the Middle School
- EDC 347 Teaching English and Communication in the Middle School
- EDC 348 Teaching Science in the Middle School

**EDC 349 Student Teaching in the Middle School** .......................... 12

**These courses include clinical and/or field hours.**
**Students seeking Special Education/LBD certification must register for only six hours of EDC 349.**

**Note:** EDC 330, EDC 343, and the two methods classes will be taken as a block in a fall semester.

**Content Area Courses (24-34 hours)**
Students wishing to become certified in middle school (grades 5-9) must select two of the following content areas of specialization. Course requirements, particularly in the areas of English and Communication and Mathematics, have been prioritized to reflect prerequisite knowledge. Students should plan course work in these areas with the assistance of an advisor. Students seeking Special Education/LBD certification should meet with their Special Education advisor for assistance with the Special Education/LBD content area.

**English and Communication (30 hours)**

**NOTE:** The Middle School English and Communication area of specialization is currently under revision. Students should work closely with an advisor in planning course work in this section. In addition, the Middle School English and Communication area of specialization must be at least thirty hours, including one course in adolescent literature.

**Required**
*COM 181 Basic Public Speaking .................................. 3
*COM 252 Introduction to Interpersonal Communication .................. 3
ENG 335 Survey of American Literature II .......................... 3
(Another American Literature course may be substituted)
ENG 509 Composition for Teachers (fall only) .................. 3
Select three courses from the following group:

NOTE: Students may work with an advisor to select additional literature courses beyond those listed in this section.

CLA 261 Literary Masterpieces of Greece and Rome . 3
ENG 211 Introduction to Linguistics .......................... 3
ENG 301 Style for Writers or
ENG 401 Special Topics in Writing
(Subtitle required) or
ENG 306 Introduction to Professions in Writing .... 3
Select two courses beyond University Studies in theatre,
journalism, or English as a second language ............ 6
Six of these hours can be counted from University Studies.

**Mathematics (24-25 hours)**
The requirements for students choosing mathematics as a
content area of specialization are based on standards
developed by the National Council of Teachers of Math-
ematics, KEIRA Goals and Academic Expectations, and
the Core Content for Assessment. The NCTM standards
for middle grades include four common threads (reason-
ing, communication, problem solving, and connections)
as well as content area standards of number, computation
and estimation, probability, statistics, algebra, geometry,
and measurement. Kentucky’s Goals and Academic Ex-
pectations and the Core Content for Assessment focus
mathematics instruction on seven core areas: number,
mathematical procedures, mathematical structure, measure-
ment, space and dimensionality, change, and data.

**Required**
MA 201 Mathematics for Elementary Teachers .......... 3
MA 202 Mathematics for Elementary Teachers .......... 3
CS 101 Introduction to Computing I .................... 3
*MA 123 Elementary Calculus
and Its Applications ........................................ 3
or
MA 113 Calculus I .................................................... 4
*STA 291 Statistical Method .................................. 3
MA 310 Mathematical Problem Solving
for Teachers ...................................................... 3
MA 341 Topics in Geometry (fall only) ................. 3
MA 162 Finite Mathematics and Its Applications .... 3
*Up to six credits may be counted from University Studies
*If STA 200 was taken to fulfill Inference and Commu-
nication Skills of University Studies, STA 291 is still
required.

**Science (31-34 hours)**
The content area preparation required for students in
the middle school education program is based on the stan-
dards adopted by the National Science Teacher’s Asso-
ciation as well as Kentucky’s Core Content for Science
Assessment and the New Teacher Standards. It is impor-
tant that science teachers have strong content preparation
in the sciences. This is needed to communicate modes of
scientific inquiry, select appropriate learning experiences,
guide students in their early scientific efforts, and help
students apply scientific knowledge and skills in their
daily lives.

**Required:** (12 hours)
BIO 150 Principles of Biology I ............................... 3
BIO 151 Principles of Biology Laboratory I ................. 2
BIO 152 Principles of Biology II ................................ 3
BIO 325 Introductory Ecology .................................. 4
Select one of the following four sequences in Chemistry,
Geology, and Physics (9-10 hours)

Sequence 1
CHE 105 General College Chemistry I .................... 3
CHE 107 General College Chemistry II .................... 3
CHE 115 General Chemistry Laboratory ................... 3

Sequence 2
GLY 220 Principles of Physical Geology ................. 4
GLY 230 Fundamentals of Geology I ..................... 3
Elective in Earth Science ....................................... 3

Sequence 3
PHY 211 General Physics (Physics Sequence I) ........ 5
PHY 213 General Physics (Physics Sequence I) ........ 5
In addition, students must complete a minimum of five
hours in each of the two physical sciences remaining.
These five hours must include laboratory work in each
area. Six credits total can be counted from University
Studies (10-12 hours).

Students who wish to use physics as the science for one
five hour block may also choose the sequence: PHY 151
Introduction to Physics; PHY 152, Introduction to Phys-
ics; and PHY 153, Laboratory for Middle School Teach-
ers.

**Social Studies (33 hours)**
The middle school social studies content area teacher
preparation program is guided by two principles: first, a
commitment to continuous improvement based on reflec-
tion, evaluation, and on-going research; second, a com-
mitment to peer collaboration as a source of professional
growth. The program is guided by the National Council
for Social Studies, document, Expectations of Excellence,
and the Kentucky New Teacher Standards.

**Area 1 – World Regional Geography and Cultural
Anthropology (9 hours)**

**Required**
GEO 152 Regional Geography of the World ............... 3
ANT 241 Origins of Old World Civilization ............... 3
Select one from the following courses:
ANT 242 Origins of New World Civilization ............. 3
GEO 172 Human Geography .................................. 3
GEO 160 Lands and Peoples of the
Non-Western World ........................................... 3

**Area 2 – World History (9 hours)**
Select nine hours from the following courses:
HIS 204 History of Europe Through the
Middle-Seventeenth Century .................................... 3
HIS 295 East Asia to 1800 ..................................... 3
HIS 254 History of Sub-Saharan Africa ..................... 3
HIS 206 History of Colonial Latin America, 1492-1810 .... 3
HIS 247 History of Islam and Middle East Peoples,
500-1250 AD ...................................................... 3
HIS 248 History Islam and Middle East Peoples,
1250 to the Present .............................................. 3
HIS 385 History of Russia to 1825 .......................... 3

**Area 3 – American History (9 hours)**
While most students will take HIS 108 and 109, those
who had either AP American history or received a 5 in
their high school American history course, should be
advised to select courses above the 100 level.
Select nine hours from the following courses:
HIS 108 History of the United States
Through 1865 ..................................................... 3
HIS 109 History of the United States Since 1865 ........ 3
HIS 260 African American History to 1865 ............... 3
HIS 265 History of Women in America .................... 3
HIS 465 Emergence of Modern America, 1877-1917 .... 3

**Area 4 – Sociology, Political Science and Economics
Electives (6 hours)**
Students must select six hours from one of the following
disciplines: sociology, political science or economics.
At least three of the hours must be at the 300 level or
above.
Six credits total can be counted towards the Social Stud-
ies subject area from University Studies.

**Special Education/LBD (34 hours)**
(Open only to students seeking both Middle School and
Special Education/LBD certification. Students who plan
to complete the Special Education LBD requirements
complete only one of the above content areas of special-
ization. If a student changes plans and completes only
the Middle School program. An additional approved Middle
School content area (specialization must be completed.)
Students seeking both Middle School and Special Edu-
cation/LBD certification will have an advisor in the De-
partment of Special Education and Rehabilitation Coun-
seling.

**Special Education Core Courses**
EDS 357 Initial Practicum in Special Education .......... 1
EDS 375 Introduction to Education of
Exceptional Children .......................................... 3
(Must have earned a C or better in the above courses
before admittance to TEP.)
EDS 509 Intervention Planning for
Children with Special Needs ................................. 3
EDS 513 Legal Issues in Special Education ............... 3
EDS 514 Instructional Technology in
Special Education ............................................... 3
EDS 516 Principles of Behavior Management
and Instruction .................................................. 3
EDS 517 Assistive Technology in Special Education 3

**LBD Area Requirement Courses**
EDS 528 Educational Assessment for
Students with Mild Disabilities ............................. 3
EDS 529 Educational Programming for
Students with Mild Disabilities ............................. 3
EDS 589 Field Experiences: Mild Disabilities .......... 3
EDS 459 Student Teaching in Special Education
(to be completed the same semester as elementary
student teaching) .................................................. 6

**B.S. in Education with major in
MODERATE/SEVERE DISABILITIES**

Requirements for Program

Two undergraduate programs are offered in special education: (1) learning and behavior
disorders (LBD) and moderate and severe disabilities (MSD). Both of these programs
support the UK educator preparation unit’s theme of Research and Reflection for Learning
and Leading. Special education teachers are prepared to assess, plan, and teach based on
what they learn from their students and to conduct continuous self-reflection in order
to improve their teaching. The standards and competencies on which the LBD and MSD
programs are based are those prescribed by The Council for Exceptional Children and The
Kentucky New Teacher Standards.

The B.S. in Education program in Moder-
ate/Severe Disabilities (MSD) requires comple-
tion of: (a) the University Studies Program; (b)
specified course work in Related Studies and
Professional Education; and (c) specified
course work in the special education and MSD
area of specialization. Students graduating
from the certification program the program
obtain a single Kentucky teacher certificate in
MSD (grades P-12). Graduates are qualified to teach in classes for students with functional mental disabilities (grades P-12). Students are required to complete a minimum of 128 hours for graduation. It is possible to complete this certificate in four years. In addition to the undergraduate program, an initial certificate in MSD (grades P-12) is offered at the graduate level (See the University of Kentucky Graduate School Bulletin).

Continuous Assessment

1. All students in the MSD program are expected to meet the standards and rules for Admission, Retention, and Exit from Teacher Education Programs as set forth in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

2. Assessment at the Point of Entry to the MSD Program. The admission process provides the first point for formal assessment of the competencies outlined in the Initial Certification Program Folio for the program. Students who apply for admission must: (a) meet the requirement for admission to the Teacher Education Program; (b) have successfully completed a special education survey course and practicum; and (c) be able to articulate their philosophy of teaching and document their experiences with persons with disabilities in an initial portfolio and an entrance interview.

3. On-going Assessment. Once a student is admitted to the program, he/she meets with an advisor to plan the remainder of the program. Prior to the student teaching semester, the student must present a portfolio that documents his/her progress toward meeting program competencies in the courses completed.

4. Exit Assessment. At the exit assessment, students must document that they have met all program competencies through a final review of their portfolio and the successful completion of student teaching in a public school placement for students with MSD.

Statement on Student Teaching

Student teaching in the MSD program is 16 weeks and consists of eight weeks in an elementary placement and eight weeks in a middle or secondary placement for students with MSD.

University Studies Component (39-51 hours)

See the University Studies Program section of this Bulletin for a listing of allowable courses in each area.

Program Related Studies (22 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 101</td>
<td>Introduction to Psychology</td>
<td>4</td>
</tr>
<tr>
<td>MA 201</td>
<td>Mathematics for Elementary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>MA 202</td>
<td>Mathematics for Elementary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>* Biological or Physical Science Sequence</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

*If biological science was taken in University studies, take physical science, six credit hours. If physical science was taken University Studies, take biological science, six hours.

ENG 204 Technical Writing ........................... 3
LIS 510 Children’s Literature and Related Materials or
IEC 512 Language and Literacy for Young Children ........ 3

Professional Education Courses (13 hours)

All of the following courses requires admission to the Teacher Education Program:

EDC 329 Teaching Reading and Language Arts .......... 3
EDC 339 Designing a Reading and Language Arts Program for the Elementary School .......... 3
EDC 337 Teaching Mathematics in the Elementary Schools .................................. 3
KHP 382 Physical Education for Elementary School Teachers .................................. 2
KHP 390 Dance Activities in the Elementary School .................................. 2

Area of Specialization: Special Education Requirements (47 hours)

Special Education Core Requirements

EDS 357 Initial Practicum in Special Education ...... 1
EDS 375 Introduction to Education of Exceptional Children ................................ 3

All of the following courses require admission to the Teacher Education Program:

EDS 513 Legal Issues in Special Education .......... 3
EDS 514 Instructional Technology in Special Education .................................. 3
EDS 516 Principles of Behavior Management and Instruction .................................. 3
EDS 517 Assistive Technology in Special Education .................................. 3
EDS 522 Children and Families .................................. 3

Moderate/Severe Disabilities Areas Requirements

EDS 530 Moderate and Severe Disabilities .......... 3
EDS 546 Transdisciplinary Services for Students with Multiple Disabilities or
EDS 547 Collaboration and Inclusion in School and Community Settings .................................. 3
EDS 548 Curriculum Design for Students with Moderate and Severe Disabilities .......... 3
EDS 549 Methods for Students with Moderate and Severe Disabilities .................................. 4
EDS 550 Student Teaching: Moderate and Severe Disabilities .................................. 12

Students must complete all special education courses with a GPA of 2.5 or better before they can student teach. Electives ........................................ 0-9

B.A. in Education with a major in SECONDARY EDUCATION

Option: English Education

Requirements for Program

This B.A. includes completion of an approved plan in the academic specialty teaching of English. The approved major in the academic specialties for teaching is entitled “English major for secondary education,” to distinguish it from the A&S major and minor. No certification is awarded with the B.A. Students desiring to go on to Master’s with initial certification must apply to The Graduate School and apply to the Secondary English Program Faculty in the spring of their senior year.

To receive the B.A. degree, students must:
(1) complete the University Studies Program;
(2) complete at least 128 semester hours;
(3) complete the requirements for one of the content area plans for secondary English education;
(4) attain a grade-point average of at least 2.5 overall, in major, in minor, and in support area; and (5) complete 100 hours of fieldwork with adolescents through the required three hour course:

EDC 362 Field Experiences in Secondary Education 3

In 1996, the National Council of Teachers of English and the International Reading Association published Standards for the English Language Arts. This document identified six English language arts: reading, writing, speaking, listening, viewing, and visually representing. In addition, it presented an expanded definition of literacy, which reflects the ways technology and society have changed and will continue to change the ways in which we use language to communicate and to think. In order to prepare students for the literacy demands of today and tomorrow, English language arts education will need to address many different types and uses of language, including those that have traditionally been given limited attention in the curriculum. One such example is spoken language. Being literate in contemporary society means being active, critical, and creative users not only of print and spoken language but also of the visual language of film, television, photography and other media. Therefore, the content model should reflect the study of language and literacy through speech, theater, writing, and media. The English education program prepares its pre-service teachers with such a model so that their students will succeed as effective language learners and users, equipped with the skills they need to become critically literate citizens, workers, members of society, and lifelong learners.

Continuous Assessment

1. All secondary education majors must be admitted to advanced standing after completing 60 hours. Advanced standing requires a 2.50 minimum GPA overall and review by the program faculty advisor for Secondary English Education.

2. Because certification occurs through the Masters in Education including certification (MIC), students should be aware that they will need to be formally admitted to the MIC program. Admission/Retention/Exit regulations for all teacher certification programs are specified in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

3. Oral and written communication skills of applicants for the MIC program in English
Education will be assessed at the time of the interview, and through the entrance portfolio.

4. At the time of application to the English Education program at the Master’s degree level, applicants are evaluated according to the following criteria: grade-point average, quality of work in the subject content area, Graduate Record Examination scores, graded and on-site writing tasks, verbal communication, quality of references, commitment to teaching, social awareness, educational experiences with diverse learners 14-18 years old, and multicultural experiences.

Statement on Student Teaching

There is no student teaching required for completion of the Secondary English Education major. Student teaching occurs as part of the Masters in Education with initial certification.

Program Related Studies (3 hours)
EDC 362 Field Experiences in Secondary Education ................................. 3

Content Area Plans (69-81 hours)

Plan 1 (81 hours)
English major for secondary education ........ 33 hours
*Major in a certifiable foreign language ....... 30 hours (certified in grades P-12)
English Support Area ................................................... 18 hours
*Students wishing to seek certification through the Masters in Education with initial certification must apply for acceptance by both the Secondary English Education Program Faculty and the Foreign Language Education Program Faculty.

Plan 2 (69-72 hours)
English major for secondary education ........ 33 hours
English Support Area ................................................... 18 hours
*Any University Approved Minor .......... 18-21 hours
*This minor must be planned with an appropriate departmental advisor if the student wishes to have it recorded on the UK transcript.

Plan 3 (72 hours)
English major for secondary education ........ 33 hours
English Support Area ................................................... 18 hours
*Teaching English as a Second Language support area ............................................. 21 hours
*Completion of the Teaching English as a Second Language support area will qualify a certified teacher for the TESL endorsement.

Plan 4 (75 hours)
English major for secondary education ........ 33 hours
English Support Area ................................................... 18 hours
General Support Area ................................................... 24 hours

English Major for Secondary Education (33 hours)

NOTE: Students should work closely with an advisor for the requirements in this section. The UK English curriculum has undergone significant revision. The total English Major for Secondary Education should total 33-36 hours.

Prerequisites
ENG 331 Survey of British Literature I ......................... 3
Select two (six hours):
ENG 332 Survey of British Literature II ......................... 3
ENG 334 Survey of American Literature I ......................... 3
ENG 335 Survey of American Literature II ......................... 3

Required Content Courses (24 hours)

Literature Component (12 hours)
ENG 264 Major Black Writers or
ENG 483G Studies in African American or
Diasporic Literature (Subtitle required)
ENG 519 Introduction to Old English
plus six hours selected with approval of advisor

NOTE: Because the UK English major has undergone significant change, students should work with an advisor in making literature selections to fulfill the requirements of this section.

Critical Thinking Component (3 hours)
Select one course with approval of advisor

Composition Component (9 hours)

Required (6 hours):
ENG 509 Composition for Teachers
ENG 301 Style for Writers or
ENG 401 Special Topics in Writing
(Subtitle required) or
ENG 306 Introduction to Professions in Writing .... 3
Select one (3 hours):
ENG 210 History of the English Language
ENG 211 Introduction to Linguistics I
ENG 310 American English
ENG 512 Modern English Grammar
EDC 575 Modern Educational Problems (Unclassified)
EDC 777 Seminar in Curriculum and Instruction
(Subtitle required)

English Support Area for Secondary English Education (18 hours)

A minimum of six hours credit are required in each of the four areas: journalism, theatre, speech and fine arts, which English teachers will be qualified to teach in Kentucky. In one of the areas, to be selected with the aid of an advisor, a minimum of nine hours is required. Fine arts are defined as courses of art in and music.

Journalism ................................................................. 3-9
Theatre ................................................................. 3-9
Speech ................................................................. 3-9
Fine Arts ................................................................. 3-9

*Although English teachers will not be certified in fine arts, they will be expected to participate on interdisciplinary teams to provide students with experiences in the arts and humanities.

Teaching English as a Second Language Support Area (21 hours)
EDC/ENG 513 Teaching English as a Second Language ................................................... 3
*EDC/ENG 514 TESL Materials and Methods ................................................... 3
EDC 575 Modern Educational Problems (Unclassified) ................................................... 3
EDC 575 Modern Educational Problems (Unclassified) ................................................... 3
ENG 310 American English ................................................... 3
ENG 512 Modern English Grammar ................................................... 3
LIN 515 Phonological Analysis ................................................... 3

*Foreign language majors will take EDC 636 Methods of Teaching Foreign Languages, K-12 instead of EDC/ENG 514.

TESL Prerequisites

Native English Speakers:
1. eight hours of foreign language study or the equivalent proficiency in American Sign Language
2. an introductory course in linguistics

Non-native English Speakers:
1. minimum score of 550 on the TOEFL Examination
2. oral English language score of 40 on the TOEFL Test of Spoken English, or documentation of equivalent proficiency.

General Support Area for Secondary English Education (24 hours)

Select courses from at least four areas from the following sets. Courses may not be double counted with courses taken for University Studies or for the English Support Area.

Anthropology
ANT 515, ANT 516

Art

Communications
COM 101, COM 350, COM 451, COM 453, COM 482, COM 581

History
HIS 104, HIS 105, HIS 108, HIS 109, HIS 202, HIS 203

For American Literature Emphasis
HIS 461, HIS 462, HIS 463, HIS 465, HIS 466, HIS 576 or HIS 578, HIS 579

For Comparative Literature Emphasis
HIS 230, HIS 371, HIS 386, HIS 511, HIS 519, HIS 520, HIS 528, HIS 529

For English Literature Emphasis
HIS 554 or HIS 555

Journalism
ISC 161, ISC 341, JAT 250, JOU 101, JOU 204, JOU 301, JOU 303, JOU 409, JOU 410, JOU 531, JOU 535

Library Science
LIS 510, LIS 514, LIS 530, LIS 547

Philosophy
PHI 100, PHI 120, PHI 130, PHI 260, PHI 270, PHI 310, PHI 317, PHI 335, PHI 503, PHI 506, PHI 509, PHI 515, PHI 545

Political Science
PS 101, PS 240, PS 439G, PS 442G, PS 545

Psychology
PSY 100, PSY 223, PSY 305, PSY 331, PSY 344, PSY 427, PSY 529, PSY 533

Sociology
SOC 334, SOC 353, SOC 534

Speech
COM 181, COM 281, COM 287

Telecommunications
JAT 101, TEL 101, TEL 201, TEL 355

Theatre Arts
TA 126, TA 260, TA 330

Foreign Language Majors for Secondary Education (30 hours)

NOTE: The College of Education is currently suspending its undergraduate program preparing students for foreign language education. English Education students with a parallel interest in teaching foreign language in the public schools should consult both with an advisor in the office of Academic Services and Teacher Certification in the College of Education, and an advisor in the College of Arts and Sciences.

Students pursuing Plan 1, which includes a double major in Secondary English Education and a certifiable foreign language, must follow the foreign language plans below. In Kentucky, foreign language certification is for grades P-12. At the time of admission to the Masters in Education with initial certification, foreign language candidates will have to earn at least an “Intermediate High” in both oral language and written language proficiency on the ACTFL academic scale.

French Major for P-12 Foreign Language Education (30 hours)

Prerequisites
FR 101/102 Elementary French ......................... 8
FR 201/202 Intermediate French ......................... 6
Required
FR 204 French Culture: Readings and conversation ........................................ 3
FR 304/305 Introduction to French Literature I/II .................................. 6
FR 306 Intermediate French Composition ................................................. 3
FR 406 Advanced French Grammar and Composition ........................................ 3
FR 310 French Phonetics ........................................................................... 3
FR 312 French Conversation I ................................................................. 3
FR 350 Cultural Profiles of France .......................................................... 3
FR 412 French Conversation II .................................................................. 3
FR 479GC Studies in French Literature (Subtitle required) .............................. 3

German Major for P-12 Foreign Language Education (30 hours)
Prerequisites
GER 101/102 Basic German ................................................................. 8
GER 201/202 Intermediate German ..................................................... 6

Required
GER 307 Intermediate German Composition and Conversation I ........................................ 3
GER 308 Intermediate German Composition and Conversation II ........................................ 3
GER 311 Introduction to German Literature: Themes (Subtitle required) ......................... 3
GER 312 Introduction to German Literature: Popular Forms ........................................ 3
GER 317 History of German Culture .................................................................... 3
GER 319 Contemporary German Literature and Culture ........................................... 3
GER 415G Major German Authors or GER 416G Genres of German Literature .............. 3
or GER 420G Studies in German Literary and Cultural History ........................................ 3
GER 507 Advanced German Composition and Conversation ........................................ 3
GER 532 History of the German Language .................................................... 3

Latin Major for P-12 Foreign Language Education (30 hours)
Prerequisites
CLA 101/102 Elementary Latin ..................................................................... 8
CLA 201/202 Intermediate Latin ................................................................. 6

Required
CLA 301 Latin Literature I (Subtitle required) .............................................. 3
CLA 302 Latin Literature II (Subtitle required) .............................................. 3
CLA 522 Roman Republican Prose (Subtitle required) ........................................... 3
CLA 523 Roman Republican Poetry (Subtitle required) ........................................... 3
CLA 526 Roman Imperial Prose (Subtitle required) ............................................... 3
CLA 527 Roman Imperial Poetry (Subtitle required) ............................................... 3
CLA 511 Studies in Roman Philology (Subtitle required) or
CLA 512 Studies in Roman Philology (Subtitle required) ........................................... 3
CLA 230 The Hellenistic World and Rome to the Death of Constantine ......................... 3
CLA 135 Classical Mythology ...................................................................... 3
CLA 210 The Art of Greece and Rome or
CLA 313 Studies in Roman Art (Subtitle required) .............................................. 3

Spanish Major for P-12 Foreign Language Education (30 hours)
Prerequisites
SPA 101/102 Elementary Spanish (spoken approach) ........................................... 8
SPA 201/202 Intermediate Spanish (spoken approach) ........................................... 6

Required
SPA 210 Spanish Grammar and Syntax ...................................................... 3
SPA 211 Intermediate Spanish Conversation ............................................... 3
SPA 312 Civilization of Spain or SPA 314 Civilization of Spanish America .......................... 3
SPA 313 Advanced Spanish Language .......................................................... 3
SPA 320 Literature, Life and Thought of Spain .............................................. 3
SPA 322 Literature, Life and Thought of Spanish America ........................................ 3
SPA 413 Advanced Spanish Conversation and Phonetics ........................................... 3
SPA 501 Spanish Phonetics, Pronunciation and Phonetics ........................................... 3
SPA 400-500 Studies in Literature ................................................................. 3

Russian Major for P-12 Foreign Language Education (30 hours)
Prerequisites
RUS 101/102 Elementary Russian ................................................................. 8
RUS 201/202 Intermediate Russian ............................................................... 8

Required
RUS 301 Advanced Intermediate Russian I ............................................... 3
RUS 302 Advanced Intermediate Russian II .................................................. 3
RUS 305 Advanced Russian Grammar .......................................................... 3
RUS 306 Advanced Russian Grammar .......................................................... 3
RUS 270 Russian Culture 900-1900 or RUS 271 Russian Culture 1900-Present .......................... 3
RUS 400G Russian Cultural Studies (Subtitle required) ........................................... 3
RUS 501 Structure of Russian or RUS 502 Structure of Russian ............................. 3
Electives ........................................................................................................ 3-18

B.A. in Education with a major in SECONDARY EDUCATION
Option: Foreign Language Education (grades P-12)

NOTE: The College of Education is currently suspending its undergraduate program preparing students for foreign language education. Students with an interest in foreign language education should contact an advisor in the College of Arts and Sciences. All educator preparation in foreign languages at the University of Kentucky occurs at the masters degree level. Students desiring to earn an educator license in public school foreign language must apply to the Master of Arts in Teaching World Languages program offered through the College of Arts and Sciences.

Requirements for Program
This B.A. includes completion of an approved plan in the academic specialty teaching of a foreign language (French, German, Spanish, Russian, Latin). The approved majors and minors in the academic specialties for teaching are entitled “French language major for secondary education,” etc., to distinguish them from the Arts & Sciences majors and minors. No certification is awarded with the B.A. Students desiring to go on to Master’s in Education with initial certification must apply to The Graduate School and apply to the Secondary Foreign Language Program Faculty in the spring of their senior year.

To receive the B.A. degree, students must:
(1) complete the University Studies Program;
(2) complete at least 128 semester hours;
(3) complete an approved combination of foreign language education options, including at least one foreign language education (P-12) major;
(4) attain grade-point averages of at least 2.50 overall and in the chosen major/minor/support areas; and
(5) complete 100 hours of fieldwork with adolescents through the required three hour course:

EDC 362 Field Experiences in Secondary Education 3

The foreign language education program philosophy as regards the teaching and learning of second languages is grounded on three assumptions: All children can learn. All children can learn languages. A child can learn any modern language. The three assumptions are predicated on two conditions: (1) the learner is free of psychological, physical, and neurological handicaps; and (2) the context for teaching and learning is appropriate to the learner, the content, and the expected outcomes. The philosophical context, in which are couched the conceptual framework and the theoretical basis for language learning and teaching, is the belief that the pursuit to know, to understand, or to be competent in another culture – its language or languages, its systems, its values, its customs, its arts – can be interpreted as an act of respect for that culture and for the family of man. The ability to communicate competently within the framework of another culture is power. It is the mission of the foreign language education program of the University of Kentucky, through its graduate and post-graduate clients, to encourage this respect and to make this power available to all students in their respective institutions.

Continuous Assessment
1. All foreign language education, grades P-12, students must be admitted to advanced standing after completing 60 hours. Advanced standing requires (a) a 2.50 minimum GPA overall, and (b) review by the program faculty advisor for foreign language education.
2. Because certification occurs through the Masters in Education including certification (MIC), students should be aware that they will need to be formally admitted to the MIC program. Admission/Retention/Exit regulations for all teacher certification programs are specified in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.
3. Oral and written communication skills of applicants for the MIC program in foreign
language education will be assessed at the time of the interview, and through the entrance portfolio.

4. At entrance to the Masters in Education with initial certification, the student must earn at least an “Intermediate High” in oral and written language proficiencies on the target language(s) as rated on the ACTFL academic scale. Appointments for these examinations should be scheduled with the chair of the Foreign Language Program Faculty well in advance of applying for admission to the masters degree program.

Statement on Student Teaching

There is no student teaching required for completion of the secondary foreign language major. Student teaching occurs as part of the Master of Arts in Teaching World Languages.

University Studies Requirements

University Studies may be met by following the courses listed in the University Studies section of this Bulletin.

Program Related Studies (3 hours)

EDC 362 Field Experiences in Secondary Education 3

Foreign Language Education (P-12) Major/Minor Options (75-81 hours)

All candidates for certification in foreign language education, grades P-12, must complete at least one Option 1 major (French, German, Latin, Spanish, Russian). However, to complete a 128-hour B.A. in the College of Education, students must make additional selections from Options 1 through 5 to complete 128 hours.

Note: All foreign language education (P-12) students are encouraged to prepare for certification in more than one foreign language by selecting an additional Option 1 language.

Option 1

Major in foreign language education, grades P-12
French, German, Latin, Spanish, Russian ... 30 hours

Option 2

English major for secondary education, grades 8-12 ........................................ 33 hours
and
English Education Support Area ........................................ 18 hours

Option 3

Teaching English as a Second Language endorsement courses, grades P-12 ........................................ 21 hours

Option 4

Any approved University minor
(not for certification) ........................................ 18-21 hours

Option 5

General Support Area for foreign language education ........................................ 24 hours

French Major for P-12 Foreign Language Education (30 hours)

Prerequisites
FR 101/102 Elementary French ........................................ 8
FR 201/202 Intermediate French ........................................ 6

Required
FR 204 French Culture: Readings and Conversation ........................................ 3
FR 304/305 Introduction to French Literature I/II ........................................ 6
FR 306 Intermediate French Composition ........................................ 3
FR 406 Advanced French Grammar and Composition ........................................ 3
FR 310 French Phonetics ........................................ 3
FR 312 French Conversation I ........................................ 3
FR 350 Cultural Profiles of France ........................................ 3
FR 412 French Conversation II ........................................ 3
FR 470G Studies in French Literature (Subtitle required) ........................................ 3

German Major for P-12 Foreign Language Education (30 hours)

Prerequisites
GER 101/102 Basic German ........................................ 8
GER 201/202 Intermediate German ........................................ 6

Required
GER 307 Intermediate German Composition and Conversation ........................................ 3
GER 308 Intermediate German Composition and Conversation II ........................................ 3
GER 311 Introduction to German Literature: themes (Subtitle required) ........................................ 3
GER 312 Introduction to German Literature: Popular Forms ........................................ 3
GER 317 History of German Culture ........................................ 3
GER 319 Contemporary German Literature and Culture ........................................ 3
GER 415G Major German Authors or GER 416G Genres of German Literature or GER 420G Studies in German Literary and Cultural History ........................................ 3
GER 507 Advanced German Composition and Conversation ........................................ 3
GER 532 History of the German Language ........................................ 3

Latin Major for P-12 Foreign Language Education (30 hours)

Prerequisites
CLA 101/102 Elementary Latin ........................................ 8
CLA 201/202 Intermediate Latin ........................................ 6

Required
CLA 301 Latin Literature I (Subtitle required) ........................................ 3
CLA 302 Latin Literature II (Subtitle required) ........................................ 3
CLA 522 Roman Republican Prose (Subtitle required) ........................................ 3
CLA 523 Roman Republican Poetry (Subtitle required) ........................................ 3
CLA 526 Roman Imperial Prose (Subtitle required) ........................................ 3
CLA 527 Roman Imperial Poetry (Subtitle required) ........................................ 3
CLA 511 Studies in Roman Philology (Subtitle required) or
CLA 512 Studies in Roman Philology (Subtitle required) ........................................ 3
CLA 230 The Hellenistic World and Rome to the Death of Constantine ........................................ 3
CLA 135 Classical Mythology ........................................ 3
CLA 210 The Art of Greece and Rome or
CLA 313 Studies in Roman Art (Subtitle required) ........................................ 3

Spanish Major for P-12 Foreign Language Education (30 hours)

Prerequisites
SPA 101/102 Elementary Spanish (spoken approach) ........................................ 8

Required
SPA 201/202 Intermediate Spanish (spoken approach) ........................................ 6

Russian Major for P-12 Foreign Language Education (30 hours)

Prerequisites
RUS 101/102 Elementary Russian ........................................ 8
RUS 201/202 Intermediate Russian ........................................ 8

Required
RUS 301 Advanced Intermediate Russian ........................................ 3
RUS 302 Advanced Intermediate Russian ........................................ 3
RUS 305 Advanced Russian Grammar ........................................ 3
RUS 306 Advanced Russian Grammar ........................................ 3
RUS 270 Russian Culture 900-1900 or
RUS 271 Russian Culture 1900-Present ........................................ 3
RUS 400G Russian Cultural Studies (Subtitle required) ........................................ 3
RUS 501 Structure of Russian ........................................ 3
RUS 502 Structure of Russian ........................................ 3

Teaching English As a Second Language Endorsement Courses, Grades P-12 (21 hours)

EDC/ENG 513 Teaching English as a Second Language ........................................ 3
*EDC/ENG 514 TESL Materials and Methods ........................................ 3
EDC 575 Modern Educational Problems (Unclassified) ........................................ 3
EDC 576 Modern Educational Problems (Unclassified) ........................................ 3
**ENG 310 American English ........................................ 3
ENG 512 Modern English Grammar ........................................ 3
LIN 515 Phonological Analysis ........................................ 3
*Foreign Language majors will take EDC 636 Methods of Teaching Foreign Languages, K-12 instead of EDC/ENG 514.
**ENG 310 not required for graduate students adding ESL as an endorsement to an existing teaching certificate.

English Major for Secondary Education, Grades 8-12 (33 hours)

NOTE: Students should work closely with an advisor for the requirements in this section. The UK English curriculum has undergone significant revision. The total English Major for Secondary Education should total 33-36 hours.

Prerequisites
ENG 331 Survey of British Literature ........................................ 3
Select two (6 hours):
ENG 332 Survey of British Literature ........................................ 3
ENG 334 Survey of American Literature ........................................ 3
ENG 335 Survey of American Literature ........................................ 3

Required Upper Division Content (24 hours)

Literature Component (12 hours)
ENG 264 Major Black Writers or
ENG 483G Studies in African American or Diasporic Literature (Subtitle required)
ENG 519 Introduction to Old English
plus six hours selected with approval of advisor

**Critical Thinking Component** (3 hours)
Select one course with approval of advisor

**Composition Component** (9 hours)

**Required** (6 hours):
ENG 509 Composition for Teachers
ENG 301 Style for Writers or
ENG 401 Special Topics in Writing
Subtitle required or
ENG 306 Introduction to Professions in Writing ...

Select one (3 hours):
ENG 210 History of the English Language
ENG 211 Introduction to Linguistics I
ENG 310 American English
ENG 512 Modern English Grammar
EDC 575 Modern Educational Problems (Unclassified)
EDC 777 Seminar in Curriculum and Instruction
Subtitle required:

**English Support Area for Secondary English Education, Grades 8-12** (18 hours)
A minimum of three hours credit are required in each of the four areas: journalism, theatre, speech and fine arts, which English teachers will be qualified to teach in Kentucky. In one of the areas, to be selected with the aid of an advisor, a minimum of nine hours is required. Fine arts are defined as courses in art and music.

<table>
<thead>
<tr>
<th>Journalism</th>
<th>Theatre</th>
<th>Speech</th>
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</table>

*Fine Arts ................................................................. 3-9

*Although English teachers will not be certified in fine arts, they will be expected to participate on interdisciplinary teams to provide students with experiences in the arts and humanities.

**General Support Area for Secondary Foreign Language Education** (24 hours)
Select courses from at least four areas from the following sets. Courses may not be double counted with courses taken for University Studies or for the English Support Area.

**Anthropology**
ANT 515, ANT 516

**Art**

**Classical Languages and Literature**
CLA 135, CLA 261, CLA 426G

**Communications**
COM 101, COM 350, COM 451, COM 453, COM 482, COM 581

**French Literature**
FR 261, FR 501, FR 504

**German Literature**
GER 311, GER 312, GER 317, GER 361

**History**
HIS 104, HIS 105, HIS 109; HIS 202, HIS 203

For American Literature Emphasis
HIS 461, HIS 462, HIS 463, HIS 465, HIS 466, HIS 576 or HIS 578, HIS 579

For Comparative Literature Emphasis
HIS 230, HIS 371, HIS 386, HIS 511, HIS 519, HIS 520, HIS 525, HIS 529

For English Literature Emphasis
HIS 554 or HIS 555

**Journalism**
ISC 161, ISC 341, JAT 250, JOU 101, JOU 204, JOU 301, JOU 303, JOU 409, JOU 410, JOU 531, JOU 535

**Library Science**
LIS 510, LIS 514, LIS 530, LIS 547

**Philosophy**
PHI 100, PHI 120, PHI 130, PHI 260, PHI 270, PHI 310, PHI 317, PHI 335, PHI 503, PHI 506, PHI 509, PHI 515, PHI 545

**Political Science**
PS 101, PS 240, PS 439G, PS 442G, PS 545

**Psychology**
PSY 100, PSY 223, PSY 305, PSY 331, PSY 344, PSY 427, PSY 529, PSY 533

**Russian and Eastern Studies**
AIS 300, HIS 324, HIS 325, RUS 261

**Sociology**
SOC 334, SOC 335, SOC 534

**Spanish and Italian Literature**
SPA 312, SPA 314, SPA 434

**Speech**
COM 181, COM 281, COM 287

**Telecommunications**
JAT 101, TEL 101, TEL 201, TEL 355

**Theatre Arts**
TA 126, TA 260, TA 330

**Electives ................................................................. 3-12**

<table>
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<tr>
<th>Option: Mathematics Education</th>
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**B.A. in Education with a major in SECONDARY EDUCATION**

**Requirements for Program**
This B.A. includes completion of an approved plan in the academic specialty teaching of mathematics, grades 8-12. The approved major in the academic specialties for teaching is entitled “Mathematics major for secondary education,” to distinguish it from the Arts & Sciences major. No certification is awarded with the B.A. Students desiring to go on to Masters in Education with Initial Certification must apply to The Graduate School and apply to the Secondary Mathematics Program Faculty in the spring of their senior year.

To receive the B.A. degree, students must:
1. All secondary education majors must (1) complete the University Studies Program; (2) complete at least 128 semester hours; (3) complete one of the secondary mathematics education plans; (4) attain a grade-point average of at least 2.50 overall and in the chosen major/minor/support areas; and (5) complete 100 hours of fieldwork with adolescents through the required three hour course:

| EDC 362 Field Experiences in Secondary Education | 3 |

The certification program in secondary mathematics education, grades 8-12, extends and enhances the conceptual framework of the College of Education by providing the opportunities and experiences necessary for beginning teachers to reflect on the perspective of the schools and the profession. Indeed, the National Council of Teachers of Mathematics (NCTM), the principal professional organization for the mathematics education program, has for the past decade promoted teaching that fosters the development of students’ abilities to explore, conjecture, and reason logically, as well as the ability to use a variety of mathematical methods to solve non-routine problems. Teaching to meet this goal requires a great deal of reflective decision making, because what students learn depends to a large extent on how it has been learned. This certification program strives to blend the learning of mathematics with the learning of pedagogy.

**Continuous Assessment**
1. All secondary education majors must be admitted to advanced standing after completing 60 hours. Advanced standing requires (a) 2.50 minimum GPA overall, and (b) review by a program faculty advisor for secondary mathematics education.

2. Because certification occurs through the Masters in Education including certification (MIC), students should be aware that they will need to be formally admitted to the MIC program. Admission/Retention/Exit regulations for all teacher certification programs are specified in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

3. Oral and written communication skills of applicants for the MIC program in mathematics education will be assessed at the time of the interview, and through the entrance portfolio.

4. At exit from the secondary mathematics education major, grades 8-12, students will:
   a. demonstrate understanding of mathematical concepts and procedures and the connections among them;
   b. use multiple representations of mathematical concepts and procedures;
   c. reason mathematically and solve mathematical problems;
   d. communicate mathematics effectively at different levels of formality; and
   e. use historical, cultural, and contemporary perspectives in mathematics discourse.

**Statement on Student Teaching**
There is no student teaching required for completion of the secondary mathematics education, grades 8-12, major. Student teaching occurs as part of the Masters in Education with certification.

**University Studies Requirements**
University Studies may be met by following the courses listed in the University Studies section of this Bulletin, with the exception that PSY 100 (Introduction to Psychology) must be taken in the social sciences component, and MA 113 is also required.

**Program Related Studies** (15 hours)
| EDC 362 Field Experiences in Secondary Education | 3 |
| CS 101 Introduction to Computing I | 3 |
| STA 291 Statistical Method | 3 |
Majors and Minors (66 hours)

Plan 1
Major in mathematics for secondary education (36 hours), with a university-approved minor* (18-21 hours) in biology, chemistry, computer science, geology, English, foreign language, psychology, physics, sociology, or theatre arts (30 hours).

Plan 2
Major in mathematics for secondary education with two 15-hour support areas in biology, chemistry, computer science, geology, English, foreign language, psychology, physics, sociology, or theatre arts (30 hours).

Plan 3
Major in mathematics for secondary education (36 hours) with 30 semester hours in astronomy, biology, chemistry, computer science, geology, economics, engineering, drawing, physics, or statistics (30 hours).

Mathematics Major for Secondary Education, Grades 8-12 (36 hours)

Required
MA 113 Calculus I .................................................. 4
MA 114 Calculus II ................................................... 4
MA 213 Calculus III .................................................. 4
MA 261 Introduction to Number Theory .................... 3
MA 310 Mathematical Problem Solving for Teachers .... 3
MA 341 Topics in Geometry .................................... 3
MA 320 Introductory Probability ............................. 3
MA 322 Matrix Algebra and Its Applications .......... 3
MA 330 History of Mathematics ................................ 3

Select six hours from the following:
MA 214 Calculus IV ................................................. 3
MA 321 Introduction to Numerical Methods ............... 3
MA 351 Elementary Topology I .............................. 3
MA 361 Elementary Modern Algebra I .................... 3
MA 415G Graph Theory ......................................... 3

Electives .............................................................. 3-8

Statement on Student Teaching
There is no student teaching required for completion of the secondary science education major. Student teaching occurs as part of the Masters in Education with initial certification.

University Studies (39-53 hours)
*See section of UK Bulletin on University Studies Requirements for listing of allowable courses in each area below.

Program Related Studies (6 hours)
EDC 362 Field Experiences in Secondary Education .... 3
CS 101 Introduction to Computing I ........................ 3

Majors and Minors (54-72 hours)

Plans for Biological Science Candidates

Plan 1
Major (33 hours in biological science) plus: (A) a supporting non-certifiable minor of (21 hours) in mathematics, OR (B) a supporting non-certifiable minor in one of the other sciences. The science fields from which the minor may be chosen include chemistry, earth science, and physics.

Plan 2
Major (33 hours in biological science) with two 12-hour supporting subjects. The 12-hour blocks of support-subjects may be chosen from two of the following fields: chemistry, earth science, physics, or mathematics.

Plan 3
Major (33 hours in biological science) and four supporting subjects. Students selecting Plan 3 will complete a major in biology and take a total of 24 semester hours from chemistry, earth science, physics, and mathematics, with a minimum of three semester hours in each field.

Plans for Physical Science Candidates

Plan 1
Major (33 hours in either chemistry, earth science, or physics) plus: (A) a supporting non-certifiable minor of (21 hours) in mathematics, OR (B) a supporting minor in one of the other sciences. The science fields from which the minor may be chosen include biology (non-certifiable), chemistry, earth science, and physics, or mathematics.

Plan 2
Major (33 hours in either chemistry, earth science, or physics) with two 12-hour supporting subjects. The 12-hour blocks of support-subjects may be chosen from two of the following fields: biology, chemistry, earth science, physics, or mathematics. Courses from the major may not be applied to the support-subjects requirement.

Plan 3
Major (33 hours in either chemistry, earth science, or physics) and four supporting subjects. Students select-
ing Plan 3 will complete a total of 24 semester hours from biology, chemistry, earth science, physics, and mathematics, with a minimum of three semester hours in each field. Courses from the major may not be applied to the support-subjects requirement.

**Plan 4**

Students will complete a physical science for secondary education major. The physical science major consists of 21 hour minors in chemistry, earth science, and physics. Minors from each field must be included in the physical science major.

**Major Requirements**

All majors for secondary education require a minimum of 33 hours.

**Biological Science Major for Secondary Education**

Required Support Courses
- CHE 105 General College Chemistry I 3
- CHE 107 General College Chemistry II 3
- CHE 115 General Chemistry Laboratory 3
- PHY 211/213 General Physics 10
- or
- PHY 231/232 General University Physics and PHY 241/242 General University Physics Laboratory 10
- GLY 220 Principles of Physical Geology 4
- MA 123 Elementary Calculus and Its Applications 4
- or
- MA 113 Calculus I
- or
- MA 132 Calculus for the Life Sciences

Recommended Support Courses
- CHE 230 Organic Chemistry I 3
- CHE 231 Organic Chemistry Laboratory I 2
- CHE 232 Organic Chemistry II 3
- CHE 233 Organic Chemistry Laboratory II 2
- CHE 226 Analytical Chemistry 3
- BCH 401G Fundamentals of Biochemistry 3
- CHE 440G Introductory Physical Chemistry 4

Recommended Courses in Major

Additional courses selected with aid of advisor.

**Earth Science Major for Secondary Education**

Required Support Courses
- MA 123 Elementary Calculus and Its Applications or MA 113 Calculus I 3-4
- CHE 105 General College Chemistry I 3
- CHE 107 General College Chemistry II 3
- CHE 115 General Chemistry Laboratory 3
- PHY 211/213 General Physics 10
- or
- PHY 231/232 General University Physics and PHY 241/242 General University Physics Laboratory 10
- BIO 150 Principles of Biology I 3
- BIO 151 Principles of Biology Laboratory I 2

Required for Major
- AST 191 The Solar System 3
- GEO 130 Earth’s Physical Environment
- or
- GEO 251 Weather and Climate 3
- GLY 220 Principles of Physical Geology 4
- or
- GLY 223 Introduction to Geology in the Rocky Mountains 6
- GLY 230 Fundamentals of Geology I 3
- GLY 235 Fundamentals of Geology II 3
- GLY 360 Mineralogy
- or
- GLY 401G Invertebrate Paleobiology and Evolution 3

Recommended for Major

The following list contains courses that are normally applied to the major.
- AST 192 Stars, Galaxies and the Universe 3
- GLY 360 Mineralogy (if not taken above) 4
- GLY 401G Invertebrate Paleobiology and Evolution (if not taken above) 3
- GLY 341 Landforms 3
- PLS 366 Fundamentals of Soil Science 4
- Oceanography course (if transferred from another university) 3
- Earth Science electives to be selected with the aid of advisor.

*Note: Students should note that earth science is generally taught in Kentucky at the eighth grade level. In many states it is taught at the ninth grade level; therefore, secondary OR middle school certification could be required. You must decide the level of certification that fits your needs. If you plan to teach in Kentucky, you may want to follow either of the following options: 1) obtain science certification through the middle school program or 2) obtain earth science certification through the secondary education program. Currently, the Kentucky Department of Education is allowing secondary science teachers to teach science in the 7th and 8th grades without having middle school certification. The option for secondary certification provides more extensive content preparation in earth science.

**Physical Science Major for Secondary Education**

Required Support Courses
- MA 113 Calculus I 4
- MA 114 Calculus II 4
- BIO 150 Principles of Biology I 3
- BIO 151 Principles of Biology Laboratory I 2

Recommended Support Courses for Major
- MA 213 Calculus III 4
- *MA 214 Calculus IV 3
- *Note: mathematics requirements for upper-level chemistry and physics courses.

**Required for Physical Science Major**

Chemistry:
- CHE 105 General College Chemistry I 3
- CHE 107 General College Chemistry II 3
- CHE 115 General Chemistry Laboratory 3
- CHE 230 Organic Chemistry I 3
- CHE 231 Organic Chemistry Laboratory I 2
- CHE 232 Organic Chemistry II 3
- CHE 233 Organic Chemistry Laboratory II 2
- CHE 226 Analytical Chemistry 3
- CHE electives (chosen with aid of advisor)

Physics:
- AST 191 The Solar System 3
- AST 192 Stars, Galaxies and the Universe 3
- PHY 211/213 General Physics 10
- PHY 231/232 General University Physics and PHY 241/242 General University Physics Laboratory 10
- PHY 361 Principles of Modern Physics 3
- PHY electives (chosen with aid of advisor)

**Earth Science:**
- AST 191 The Solar System 3
- AST 192 Stars, Galaxies and the Universe 3
- GLY 220 Principles of Physical Geology 4
- or
- GLY 223 Introduction to Geology in the Rocky Mountains 6
- GLY 230 Fundamentals of Geology I 3
- GLY 235 Fundamentals of Geology II 3
- GLY 360 Mineralogy
- or
- GLY 401G Invertebrate Paleobiology and Evolution 3
- Earth Science Electives (chosen with aid of advisor)

**Recommended Courses for Physical Science Major**

CHE 232 Organic Chemistry II 3
CHE 233 Organic Chemistry Laboratory II 2
BCH 401G Fundamentals of Biochemistry 3
CHE 440G Introductory Physical Chemistry 3
GLY 360 Mineralogy
or
GLY 401G Invertebrate Paleobiology and Evolution 3

*Note: mathematics requirements for upper-level chemistry and physics courses.

**Recommended Courses for Physical Science Major**

CHE 105 General College Chemistry I 3
CHE 107 General College Chemistry II 3
CHE 115 General Chemistry Laboratory 3
CHE 230 Organic Chemistry I 3
CHE 231 Organic Chemistry Laboratory I 2
CHE 232 Organic Chemistry II 3
CHE 233 Organic Chemistry Laboratory II 2
CHE 226 Analytical Chemistry 3
BCH 401G Fundamentals of Biochemistry 3
CHE 440G Introductory Physical Chemistry 3
GLY 360 Mineralogy
or
GLY 401G Invertebrate Paleobiology and Evolution 3

*Note: mathematics requirements for upper-level chemistry and physics courses.

**Earth Science:**
- AST 191 The Solar System 3
- AST 192 Stars, Galaxies and the Universe 3
- GLY 220 Principles of Physical Geology 4
- or
- GLY 223 Introduction to Geology in the Rocky Mountains 6
- GLY 230 Fundamentals of Geology I 3
- GLY 235 Fundamentals of Geology II 3
- GLY 360 Mineralogy
- or
- GLY 401G Invertebrate Paleobiology and Evolution 3
- Earth Science Electives (chosen with aid of advisor)
Physics Major for Secondary Education

Required Support Courses
CHE 105 General College Chemistry I .................. 3
CHE 107 General College Chemistry II .................. 3
CHE 115 General Chemistry Laboratory .................. 3
MA 113 Calculus I .................................................. 4
MA 114 Calculus II .................................................. 4
GLY 220 Principles of Physical Geology .................. 4
BIO 150 Principles of Biology I ............................... 3
BIO 151 Principles of Biology Laboratory I ............. 2

Recommended Support Courses
MA 213 Calculus III .................................................. 4
MA 214 Calculus IV ................................................... 3

*Note: mathematics requirements for upper-level physics courses.

Required for Major
PHY 231/232 General University Physics ................. 5
PHY 241/242 General University Physics Laboratory .......... 5
PHY 361 Principles of Modern Physics ..................... 3
PHY electives (chosen with aid of advisor)

Recommended for Major
AST 191 The Solar System or
*PHY 151 Introduction to Physics ............................. 3
AST 192 Stars, Galaxies and the Universe or
*PHY 152 Introduction to Physics ............................. 3

*Note: A maximum of nine hours of astronomy may be counted toward the 33 hour physics requirement. A student may not count both the AST 191, 192 and PHY 151, 152 sequences toward the physics major for secondary education. If PHY 151 and PHY 152 are applied to the major, they must be completed prior to taking the PHY 231, 241, 232, 242 sequence.

MINOR REQUIREMENTS

A minor in one of the sciences or mathematics is required for Plans I of the biological science and physical science certification areas. See plans for details. Students are not certified to teach in a minor area. However, physical science for secondary education majors are certified to teach chemistry, earth science, and physics. All minors for secondary education require a minimum of 21 hours.

Biological Science Minor for Secondary Education

Required Support Courses
CHE 105 General College Chemistry I .................. 3
CHE 107 General College Chemistry II .................. 3
CHE 115 General Chemistry Laboratory .................. 3

Required for Minor
BIO 150 Principles of Biology I ............................... 3
BIO 151 Principles of Biology Laboratory I ............. 2
BIO 152 Principles of Biology II ............................. 3
BIO 153 Principles of Biology Laboratory II ............ 2
BIO 325 Introductory Ecology .................................. 4
BIO 304 Principles of Genetics or
ABT 360 Genetics .................................................... 3-4

Recommended for Minor
Additional courses selected with aid of advisor.

Chemistry Minor for Secondary Education

Required for Minor
CHE 105 General College Chemistry I .................. 3
CHE 107 General College Chemistry II .................. 3
CHE 115 General Chemistry Laboratory .................. 3

Recommended for Minor
CHE 230 Organic Chemistry I ................................ 3
CHE 231 Organic Chemistry Laboratory I ............... 2
CHE 232 Organic Chemistry II ................................ 3
CHE 233 Organic Chemistry Laboratory II .............. 2
CHE 226 Analytical Chemistry ................................. 3-4
or
RCH 401G Fundamentals of Biochemistry ................ 3

Additional courses selected with aid of advisor.

Earth Science Minor for Secondary Education*

Required for Minor
AST 191 The Solar System ........................................ 3
GEO 130 Earth’s Physical Environment or
GEO 251 Weather and Climate .................................. 3
GLY 220 Principles of Physical Geology or
GLY 223 Introduction to Geology in the Rocky Mountains .................................................. 6
GLY 230 Fundamentals of Geology I ........................ 3
GLY 235 Fundamentals of Geology II ........................ 3
GLY 360 Mineralogy or
GLY 401G Invertebrate Paleobiology and Evolution .................................................. 3-4

Recommended for Minor
The following list contains courses that are normally applied to the minor.
AST 192 Stars, Galaxies and the Universe .................. 3
GLY 360 Mineralogy (if not taken above) ................... 4
GLY 401G Invertebrate Paleobiology and Evolution (if not taken above) ................... 3
GLY 341 Landforms .................................................... 3
PLS 366 Fundamentals of Soil Science ...................... 4
Oceanography course (if transferred from another university) .............................................. 3

Mathematics Minor for Secondary Education

Required for Minor
MA 113 Calculus I .................................................... 4
MA 114 Calculus II .................................................... 4
MA 213 Calculus III .................................................... 4

Recommended for Minor
Additional courses chosen with aid of advisor. In most cases courses will be selected from the following list:
MA 341 Topics in Geometry ...................................... 3
MA 310 Mathematical Problem Solving for Teachers .................................................. 3
MA 261 Introduction to Number Theory ........................ 3
MA 320 Introductory Probability .................................. 3
MA 322 Matrix Algebra and Its Applications ................ 3
MA 330 History of Mathematics .................................. 3
MA 214 Calculus IV .................................................... 3

Physics Minor for Secondary Education

Required Support Course
MA 113 Calculus I .................................................... 4

Recommended Support Courses
CHE 105 General College Chemistry I .................. 3
CHE 107 General College Chemistry II .................. 3
CHE 115 General Chemistry Laboratory .................. 3
MA 114 Calculus II .................................................... 4

*Note: mathematics requirements for upper-level physics courses.

Required for Minor
PHY 211/213 General Physics ................................... 10
or
PHY 231/232 General University Physics and

PHY 241/242 General University Physics Laboratory .................................................. 10
PHY 361 Principles of Modern Physics ..................... 3

Recommended for Minor
AST 191 The Solar System or
*PHY 151 Introduction to Physics ............................. 3
AST 192 Stars, Galaxies and the Universe or
*PHY 152 Introduction to Physics ............................. 3

*Note: A maximum of six hours of astronomy may be counted toward the 21 hour physics requirement. A student may not count both the AST 191, 192 and PHY 151, 152 sequences toward the major. If PHY 151 and PHY 152 are applied to the major, they must be completed prior to taking the PHY 231, 241, 232, 242 sequence.

B.A. in Education with a major in SECONDARY EDUCATION

Option: Social Studies Education

Requirements for Program

This B.A. includes completion of an approved plan in the academic specialty teaching social studies. The approved majors and minors in the academic specialties for teaching are entitled “history major for secondary education,” etc., to distinguish them from the Arts & Sciences majors and minors. No certification is awarded with the B.A. Students desiring to go on to Master’s with Initial Certification must apply to The Graduate School and apply to the Secondary Social Studies Education Program Faculty in the spring of their senior year.

To receive the B.A. degree, students must:
(1) complete the University Studies Program; (2) complete at least 128 semester hours; (3) complete one of the secondary social studies education plans; (4) attain a grade-point average of at least 2.50 overall and in the major/minor/support areas; and (5) complete 100 hours of fieldwork with adolescents through the required three hour course:
EDC 362 Field Experiences in Secondary Education 3

Following completion of the secondary social studies major, students will demonstrate the following: (1) a reflective understanding of American society, its past and contemporary situation, and its place in the larger world; (2) an ability to apply social science concepts and use inquiry and interpretive skills; (3) a historical perspective; (4) a multicultural and global perspective; and (5) an ability to learn from participation in the community (from local to global) affairs and service. Students should consider experiences such as study abroad and internships in government and social agencies, as well as course work, in preparation for social studies teaching.

Continuous Assessment

1. All secondary education majors must be admitted to advanced standing after completing 60 hours. Advanced standing requires: (A) 2.50 minimum GPA overall; (B) 2.50 minimum GPA in course work leading to
completion of Plan 1 or Plan 2; and (C) review by program faculty advisor for secondary social studies education.

2. Because certification occurs through the Masters in Education including certification (MIC), students should be aware that they will need to be formally admitted to the MIC program. Admission/Retention/Exit regulations for all teacher certification programs are specified in the section “Admission, Retention and Exit from Teacher Education Programs” on page 166.

3. Oral and written communication skills of applicants for the MIC program in social studies education will be assessed at the time of the interview, and through the entrance portfolio.

4. Admission to the Masters in Education with initial certification is competitive.
   a. Students are reminded that they will be teaching about the whole world; somewhere in the 66 hours they should have at least one course about each world region. Students are strongly urged to complete the 12-hour campus-wide International Studies Concentration or one of the 12-hour plus foreign language World Regional/Foreign Language Concentrations.
   b. Students also need to be prepared to teach U.S. history from an interdisciplinary perspective and a multicultural perspective. Students are strongly urged to take 12 hours as an American Studies Emphasis, with at least one course in the humanities and at least two courses dealing with diversity in the U.S.
   c. Students need breadth and depth. Students are strongly urged to take nine hours in two of the subjects in their support area. Courses may double-count in University Studies in Plan 1 or 2 and in the 12-hour blocks.

**Statement on Student Teaching**

There is no student teaching required for completion of the secondary social studies education major. Student teaching occurs as part of the Masters in Education with certification.

**University Studies (39-53 hours)**

*See University Studies Program section of this Bulletin for listing of allowable USP courses.

**Program Related Studies (3 hours)**

EDC 362 Field Experiences in Secondary Education 3

**Majors and Minors (66-72 hours)**

Students must complete Plan 1 or 2 in history and social sciences for secondary education.

**Plan 1**

Major in history (36 hours) with a minor (21 hours) in anthropology, economics, geography, political science, psychology, or sociology, and a support area (15 hours) which includes one course from each of the social sciences not chosen as minor.

**Plan 2**

Major (at least 30 hours) in anthropology, economics, geography, political science, psychology, or sociology, with a minor (21 hours) in history and a support area (15 hours) which includes one course from each of the social sciences not chosen as major.

**History Major for Secondary Education (36 hours)**

*Required (18 hours)*

- HIS 104 A History of Europe Through the Mid-Seventeenth Century 3
- HIS 105 A History of Europe From the Mid-Seventeenth Century to the Present 3
- HIS 108 History of the United States Through 1865 3
- HIS 109 History of the United States Since 1865 3
- HIS 301 History Workshop: Introduction to the Study of History 3
- HIS 499 Senior Seminar for History Majors (Subtitle required) 3

*Twelve of the other 18 credits must be history courses numbered 300 to 599. There must be some chronological width, with at least six hours of U.S. history above the 100 level and at least nine hours in history of other regions of the world, which will give the student the broad background necessary to teach World Civilization in 18*

**History Minor for Secondary Education (21 hours)**

*Required (12 hours)*

- HIS 104 A History of Europe Through the Mid-Seventeenth Century 3
- HIS 105 A History of Europe From the Mid-Seventeenth Century to the Present 3
- HIS 108 History of the United States Through 1865 3
- HIS 109 History of the United States Since 1865 3

*Plus nine hours which will give students a broad preparation for teaching U.S. History and World Civilization. At least six hours should be at the 300 level or above 9*

**Anthropology Major for Secondary Education (33 hours)**

*Required (6 hours)*

- ANT 220 Introduction to Cultural Anthropology 3
- ANT 230 Introduction to Physical Anthropology 3

*Anthropological Theory (9 hours)*

- ANT 301 History of Anthropological Theory 3
- ANT 433 Social Organization 3
- One of the following: ANT 429, 430G, 525, 526, 532, 538, 550 3

*Research Methodology (3 hours)*

- ANT 490 Anthropological Research Methods 3

**Option I – Regional Specialization (6 hours)**

Two courses from the same culture area, one ethnology and one culture history. Ethnology courses are: ANT 221, 323, 324, 428G, 431G, 534. Culture history courses are: ANT 241, 242, 320, 322, 342, 555.

**Option 2 – Cross-Cultural Comparison (6 hours)**

Two ethnology courses, each representing a contrasting area. Ethnology courses are: ANT 221, 323, 428G, 431G, 534.

**Subdisciplinary Breadth (6 hours)**

One course in anthropology and one in physical anthropology.
GEO 152 Regional Geography of the World
or
GEO 160 Lands and Peoples of the Non-Western World ........................................3
GEO 300 Geographic Research .........................................................3
GEO 305 Elements of Cartography .................................................3
GEO 310 Quantitative Techniques in Geography ..........................3
For breadth take at least one regional course and one thematic course in geography numbered at the 300 level or above (six hours)

Core Requirements
Select a minimum of 12 hours of courses within geography numbered at the 200 level or above (12 hours)

Geography Minor for Secondary Education (21 hours)
GEO 130 Earth’s Physical Environment .............................3
GEO 172 Human Geography .........................................................3
GEO 152 Regional Geography of the World ...............3
or
GEO 160 Lands and Peoples of the Non-Western World ........3
GEO 300 Geographic Research ..................................................3
or
GEO 305 Elements of Cartography ...............................3
or
GEO 310 Quantitative Techniques in Geography ..........................3
Nine additional hours in geography at the 200 level or above (nine hours)

Political Science Major for Secondary Education (30 hours)

Required
PS 101 American Government ...........................................3
Select two (six hours)
PS 210 Introduction to Comparative Politics ...................3
PS 212 Culture and Politics in the Third World ...............3
PS 235 World Politics ..............................................................3
PS 240 Introduction to Political Theory .................................3
PS 372 Introduction to Political Analysis ..........................3
Plus a minimum of 21 additional semester hours, of which at least 15 must be at the 300 level or above. In order to expose the student to the various subfields of political science, the combination of courses selected must include at least one course in each of the subfields 1, 2, and 3 below, as well as one course in another subfield (21 hours)

1. Theory and Methodology
PS 240 Introduction to Political Theory .................................3
PS 372 Introduction to Political Analysis .................................3
PS 441G Early Political Theory ................................................3
PS 442G Modern Political Theory ........................................3
PS 545 American Political Thought ........................................3

2. Comparative Government
PS 210 Introduction to Comparative Politics ...................3
PS 212 Culture and Politics in the Third World ...............3
PS 411G Comparative Government–Parliamentary Democracies I ........................................3
PS 412G Comparative Government–Parliamentary Democracies II ........................................3
PS 417G Survey of Sub-Saharan Politics .................................3
PS 419G The Governments and Politics of Eastern Asia ............3
PS 427G East European Politics ................................................3
PS 428G Latin American Government and Politics ................3
PS 429G Government and Politics in Russia and the Post-Soviet States ........................................3

3. International Relations
PS 235 World Politics ..............................................................3
PS 431G National Security Policy ...........................................3
PS 433G Politics of International Economic Relations ................3
PS 436G International Organization ........................................3
PS 437G Dynamics of International Law ..................................3
PS 439G Special Topics in International Relations (Subtitle required) ................3
PS 538 Conflict and Cooperation in Latin American Relations ........3

4. Political Process
PS 470G American Political Parties ........................................3
PS 472G Political Campaigns and Elections .........................3
PS 473G Public Opinion ..............................................................3
PS 474G Political Psychology ....................................................3
PS 475G Politics and the Mass Media ........................................3
PS 476G Legislative Process .......................................................3
PS 479 Women and Politics .......................................................3
PS 480G Government and the Economy ..................................3
PS 484G The American Presidency .........................................3
PS 571 Interest Groups ............................................................3

5. Public Administration
PS 489G The Analysis of Public Policy ....................................3
PS 580 The Budgetary Process ................................................3

6. Public Law and Judicial Behavior
PS 461G Civil Liberties ............................................................3
PS 463G Judicial Politics ............................................................3
PS 465G Constitutional Law ......................................................3

7. State and Local Government
PS 456G Appalachian Politics ................................................3
PS 458 State Government ..........................................................3
PS 557 Kentucky Government and Politics ............................3
Note: The subfield designation for PS 391, PS 395, and PS 492 varies with the topic covered. Check with the department for current offerings relevant to social studies.

Political Science Minor for Secondary Education (21 hours)

Required
PS 101 American Government ...........................................3
Select two (six hours)
PS 210 Introduction to Comparative Politics ...................3
PS 212 Culture and Politics in the Third World ...............3
PS 235 World Politics ..............................................................3
PS 240 Introduction to Political Theory .................................3
PS 372 Introduction to Political Analysis ..........................3
Plus a minimum of 12 additional semester hours, of which at least nine must be at the 300 level or above.

Psychology Major for Secondary Education (30 hours)

Required (13 hours)
PSY 100 Introduction to Psychology .........................................4
PSY 313 Personality and Individual Differences ..................3
PSY 314 Social Psychology and Cultural Processes .................3
PSY 533 Abnormal Psychology ................................................3
Select one (3 hours)
PSY 331 The Psychology of Adjustment ..................................3
PSY 448 Applied Social Psychology .......................................3
PSY 449 Interpersonal Processes ............................................3

Select one (4 hours)
PSY 215 Experimental Psychology .......................................4
PSY 430 Research in Personality ............................................4
PSY 440 Research in Social Psychology ..................................4
PSY 460 Processes of Psychological Development ..................4
The remaining hours are elective (10 hours)

Psychology Minor for Secondary Education (18-21 hours)
The required courses are the same as for the major (13 hours)
Select one (3 hours)
PSY 331 The Psychology of Adjustment ..................................3
PSY 448 Applied Social Psychology .......................................3
PSY 449 Interpersonal Processes ............................................3

Select one (3-4 hours)
PSY 215 Experimental Psychology .......................................4
PSY 313 Learning and Cognition ............................................3
PSY 312 Brain and Behavior ....................................................3
PSY 430 Research in Personality ............................................4
PSY 440 Research in Social Psychology ..................................4
PSY 460 Processes of Psychological Development ..................4

Sociology Major for Secondary Education (30 hours)

Required (6 hours)
SOC 101 Introduction to Sociology ........................................3
Select one (6 hours)
SOC 302 Sociological Research Methods ..........................6
and
SOC 303 Quantitative Sociological Analysis ..........................6
OR
SOC 304 Classical Sociological Theory ..............................6
and
SOC 305 Contemporary Sociological Theory ..........................6
Electives ..................................................................................18
At least six of the remaining 18 hours must be at the 300 level or higher.

Sociology Minor for Secondary Education (21 hours)

Required (6 hours)
SOC 101 Introduction to Sociology ........................................3
Select one (6 hours)
SOC 302 Sociological Research Methods ..........................6
and
Quantitative Sociological Analysis .................................6
OR
SOC 304 Classical Sociological Theory ..............................6
and
SOC 305 Contemporary Sociological Theory ..........................6
Electives ..................................................................................9
At least six of the nine hours must be at the 300 level or higher.
Electives: Variable, to meet 128 hours Total Program Requirement.

DEGREE PROGRAMS OUTSIDE THE COLLEGE OF EDUCATION

B.A. with a major in ARTEducation
The requirements for K-12 art education are listed in the Fine Arts section of this Bulletin.

COMMUNICATION DISORDERS
The undergraduate and graduate programs in communication disorders are now part of the Department of Rehabilitation Sciences in the College of Health Sciences. Prospective students should refer to the Health Sciences section of this Bulletin.
B.M.M.E. with a major in MUSIC EDUCATION

The requirements for K-12 music education are listed in the Fine Arts section of this Bulletin.

BACHELOR OF SCIENCE IN CAREER AND TECHNICAL EDUCATION

Requirements are listed in the College of Agriculture and School of Human Environmental Sciences section of this Bulletin.

Undergraduate Initial Educator Licensure Programs for Persons Already Holding a Bachelor’s Degree

The College of Education offers undergraduate programs leading to initial certification in early elementary education and middle school education for candidates who already hold a bachelor’s degree from a regionally accredited institution of higher education. These expedited programs are designed to take advantage of candidates’ age and life experiences and to shorten the time required for program completion. They do not lead to a UK bachelor’s degree. Documents describing these programs are available from Academic Services and Teacher Certification, 166 Taylor Education Building, or from the Department of Curriculum and Instruction, 335 Dickey Hall. All College of Education Admission, Retention and Exit to Teacher Education Programs rules apply to these programs. In addition, candidates must adhere to policies relating to field placements and character and fitness reviews. Interested persons are encouraged to see an advisor before enrolling in any courses associated with these programs.

Business and Marketing Education

Teacher certification in business and marketing education is available at UK through the masters of arts in education with initial certification. Students completing a degree in an area of business may seek admission to the program by contacting Dr. Douglas Smith, Chair, Program Faculty in Business and Marketing Education, Department of Curriculum and Instruction.
The College of Engineering offers programs leading to undergraduate and graduate degrees in computer science and the following engineering disciplines – biosystems and agricultural, chemical, civil, computer, electrical, materials, mechanical, and mining. Graduate training in biomedical engineering is also offered through the Colleges of Engineering and Medicine. The College also offers a highly multidisciplinary master of science in manufacturing systems engineering to address the growing need for enhancing manufacturing productivity and quality.

Creative accomplishment in the career of an engineer or computer scientist depends upon an education that stresses major ideas and fundamental concepts of engineering rather than specific technologies. The academic programs in engineering provide a sound background in the mathematical, physical and engineering sciences blended with the social sciences and humanities to ensure both a thorough education in engineering and a liberal education. Such an approach provides the best preparation for the engineer or computer scientist who must envisage and develop the technological capabilities.

The various curricula in the College of Engineering are broad, so that no student is limited to a narrow field of specialized knowledge but receives sufficient technical depth to provide a sound preparation for a professional career.

The first engineering degree from the University of Kentucky was granted in 1890. Since that time over 21,000 degrees have been awarded in the various fields of engineering. Among the alumni of the College of Engineering are those who have distinguished themselves in the major fields of industry, government and education.

Concern for the individual is a most important feature of education in the College of Engineering. Close faculty-student relationships are necessary a meaningful part of the educational process. The faculty, in addition to their duties related to instruction and research, serve as advisors to the student in the preparation of the academic program best matched to the student’s needs and intellectual capabilities.

**Accreditation**

The undergraduate program in Computer Science is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700.

The undergraduate programs in Biosystems and Agricultural Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, and Mining Engineering are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700.

**Undergraduate Programs in Engineering**

The University of Kentucky grants the following degrees in the College of Engineering:

- Bachelor of Science in Biosystems and Agricultural Engineering
- Bachelor of Science in Chemical Engineering
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Computer Engineering
- Bachelor of Science in Computer Science
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Materials Engineering
- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Mining Engineering

While these are the official degrees granted at the bachelor’s level in the college, the prospective student is encouraged to study the wide variety of options available through technical electives, some of which are listed following the degree requirements of each department. Technical electives are included in each curriculum to allow the student to apply the fundamentals of a particular discipline to an area of special interest during the senior year.

Students in any department interested in biomedical engineering may make special arrangements to include a limited amount of such studies in the undergraduate program. The Department of Biosystems and Agricultural Engineering and the Center for Biomedical Engineering have approved an optional program in pre-biomedical engineering. Biomedical engineering is primarily the application of engineering principles to the solution of medical problems.

The Department of Chemical Engineering has approved an optional program in premedicine or predentistry. Students majoring in chemical engineering may arrange through their advisor to take courses that will satisfy the degree requirements for this program.
In response to industry requests, the College of Engineering and the Gatton College of Business and Economics have joined to offer a coordinated Bachelor of Science in Engineering and Masters of Business Administration. The intense five-year program may require summer courses to remain on track to complete the engineering part in four years. The MBA will be taken during a student’s fifth year of study beginning in July and finishing the following June. In addition, students in the program will be required to complete a study abroad program designed specifically for the engineering/business student. This program will be conducted immediately upon completion of the MBA course requirements and the majority of costs will be paid by the program. Students earning a 3.25 or better GPA and having completed their junior year will be identified and will receive a letter asking them to apply for the program. Admission is highly competitive and is limited to 15 students. Selection is based on past academic performance, communication skills, and commitment to the program.

For engineering students interested in manufacturing, the University offers a dual-degree program. This program allows students pursuing a B.S. in Electrical Engineering or Mechanical Engineering to concurrently enroll in the M.S. in Manufacturing Systems Engineering. The BSEE/MSMSE or BSME/MSMSE dual-degree programs can be completed in five years. Students in the program can participate in intensive summer courses in Lean Manufacturing. Students in the program are strongly encouraged to be Co-op students or to do industry internships to supplement their course work with industry experience. During their junior year, students should apply to the Graduate School for admittance into the dual-degree program.

Graduate programs in the engineering fields of study are listed in *The Graduate School* section of this Bulletin.

**ADMISSION POLICY**

The minimum entry requirement for admission into the College of Engineering is:

- ACT math score of 23 or above, or
- SAT math score of 510 or above.

Four alternative admission routes include:

1. 3 or above on the Calculus AB portion of the Advanced Placement Exam;
2. Eligibility to enter MA 110 based on the UK Math Department Placement Exam;
3. Completion of or the equivalent of MA 110 with a grade of C or higher;
4. Completion of or the equivalent of MA 109 and MA 112 with a grade of C or higher.

Newly admitted pre-engineering or pre-computer science students are allowed to choose an open major for one semester (12 credit minimum) called General Engineering. All students must select a program before the end of their first semester, preferably when they register for classes for their second semester.

Application must be made for admission to a specific pre-engineering program. However, subsequent transfer between programs will be permitted and may be accomplished by applying and satisfying the appropriate specified criteria.

All undergraduate degree programs are divided into pre-engineering and engineering. Pre-engineering is broadly defined as the first two years of a program, while engineering is broadly defined as the last two years of the program. Every student must be admitted to engineering standing in a specific program prior to graduation.

**Engineering Standing Admission**

Admission to engineering standing in a degree program is necessary in order to be granted a baccalaureate degree in engineering or computer science. Specific departmental requirements for admission to engineering standing are noted below. The same criteria are applied to transfer students with the equivalence of courses determined by the Director of Undergraduate Studies. A student must apply to the specific department for admission to engineering standing. **Note:** The cumulative grade-point average includes all listed college-level work taken at the University of Kentucky or elsewhere.

Students can request qualification for engineering standing after completing the required set of standing courses in the first three semesters of the published curriculum in their chosen program. Each program can specify its engineering standing requirements, but no program may specify a GPA higher than 2.50 for engineering standing.

Requirements by a program for engineering standing may include many items, such as courses counted in first three semesters, repeat options allowed, number of applications for engineering standing allowed, restrictions on taking upper-level courses, minimum course grades, etc. A student should refer to the UK Bulletin and the undergraduate advisor in their program of choice to identify the specific requirements.

**Biosystems and Agricultural Engineering:** Completion of a minimum of 35 semester hours acceptable towards the degree in biosystems and agricultural engineering with a minimum cumulative grade-point average of 2.50. Completion of ENG 104, MA 113, MA 114, MA 213, MA 213, CHE 105 and PHY 231 with a minimum cumulative GPA of 2.5 in these courses. University repeat options may be utilized as appropriate. Students who do not meet these GPA requirements may request consideration based upon departmental review if both of these GPA values are 2.25 or greater.

**Chemical Engineering:** Completion of CHE 105, CHE 107, CHE 111, CHE 113, MA 113, MA 114, MA 213, PHY 231, PHY 241, ENG 104 with a minimum cumulative grade-point average of 2.50 in these courses. Completion of CME 199 and CME 200 with grades of C or better. University repeat options may be applied as appropriate.

**Civil Engineering:** Completion of CE 106, CE 120, CE 211, CHE 105, CHE 107, CHE 107, ENG 104, MA 113, MA 114, MA 213, PHY 231, PHY 241 with a minimum cumulative grade-point average (GPA) of 2.50 in these classes and a C or better in each of them as well as 45 or more semester credit hours. University repeat options may be utilized. Students who do not meet this GPA requirement may request consideration based upon departmental review if this core GPA is 2.25 or greater. Students are limited to two applications for engineering standing.

**Computer Engineering:** Completion of a minimum of 35 semester hours acceptable towards the degree in engineering with a minimum cumulative grade-point average of 2.50. Completion of MA 113, MA 114, MA 213, PHY 231, CHE 105, and ENG 104 with a minimum cumulative GPA of 2.50 in these courses. Completion of EE 211, EE 280, CS 115 and CS 215 with a minimum cumulative GPA of 2.50 in these courses. University repeat options may be utilized as appropriate. In addition, the Electrical and Computer Engineering Department will not permit a third admission into any of these courses. Students who do not meet these GPA requirements may request consideration based upon departmental review if the first two GPAs are 2.25 or greater and they receive a C or better in EE 211, EE 280, CS 115 and CS 215.

**Computer Science:** In order to graduate and take most of the 300 level and above computer science courses, a student must attain engineering standing. To attain engineering standing a student must complete the following courses with a grade-point average of at least 2.50: ENG 104, MA 113, MA 114, CS 100, CS 115, CS 215, CS 275, PHY 231, PHY 241.

**Electrical Engineering:** Completion of a minimum of 35 semester hours acceptable towards the degree in engineering with a minimum cumulative grade-point average of 2.50. Completion of MA 113, MA 114, MA 213, PHY 231, CHE 105, and ENG 104 with a minimum cumulative GPA of 2.50 in these courses. Completion of EE 211 and EE 280 with passing grades. University repeat options may be utilized as appropriate. In addition, the Electrical and Computer Engineering Department will not permit a third admission into any of these courses. Students who do not meet these GPA requirements may request consideration based upon departmental review if both of these GPA values are 2.25 or greater.
Combined Degree Program

The College of Engineering has transfer agreements with several institutions throughout the state. Some of these institutions offer a "3/2" year dual degree program. Other academic institutions choose to offer this option to their students without benefit of a formal agreement. These programs enable students to earn two degrees, one from the school at which they originally enrolled and the other a Bachelor of Science in the appropriate field of engineering from the University of Kentucky.

Cooperative Education Program

The nationally recognized engineering co-op program provides students the opportunity to gain practical work experience. By alternating semesters of academic study with semesters of practical work experience, a full year of engineering work experience can be gained during the junior and senior years. Students who wish to participate in the Cooperative Education program in the College of Engineering should contact the Director of Cooperative Education.

To be eligible for this program, students should have a minimum grade-point average of 2.5. In addition, they should complete all the courses in the first two semesters of the degree program prior to the first work tour. Students will remain on a full-time, continuing student status while they are at work by registering for a one-hour, pass/fail course. The grade, assigned by the director, is based on both a work report written by the student and an evaluation completed by the immediate supervisor. Six months of the year's co-op experience counts toward total experience required to sit for the Professional Engineer exam in Kentucky.

The Cooperative Education program contributes significantly to the student's academic motivation, career preparation, and success with job offers upon graduation. One-third of our students complete their engineering work experience can be presented on a 4.0 scale. In all departments, the course EGR 305 can make the Engineering Dean's List for the past two semesters.

Scholarships

The College of Engineering awards merit-based scholarships to incoming freshman and transfer students as well as to students already enrolled in the College. Freshman scholarship applications are due January 15; transfer scholarship applications are due March 15; and continuing student applications are due April 15. Awards are made for the upcoming academic year; no new awards are made for the spring semester.

For further information, contact the College of Engineering Office of Student Services.

Engineering Dean's List

Students enrolled in the College of Engineering can make the Engineering Dean's List for a fall or spring semester by meeting the following requirements during the semester:

1. 3.6 or better semester GPA;
2. 12 or more credit hours;
3. no E, I or F grades;
4. no grades out; and
5. no more than 3 hours pass/fail.

Minimum Requirements for Graduation

NOTE: The following graduation requirements apply to engineering programs only. Separate graduation requirements currently apply to the Computer Science program as described in the corresponding section.

To be awarded a Bachelor of Science degree in any field of engineering, a student must:

1. complete the University and College requirements relating to writing and University Studies;
2. complete a minimum of 128 hours, exclusive of those earned in freshman college algebra and freshman college trigonometry, with a cumulative standing of not less than 2.0 on a 4.0 scale. In all departments, the course requirements exceed this 128 hour minimum.
3. be admitted to engineering standing in an engineering program for at least the final semester, and complete the requirements of that program.
4. complete a minimum of 24 credit hours of departmental courses at or above the 300 level.
5. complete all technical electives with a cumulative standing of 2.0 or higher.
6. complete any additional departmental graduation requirements that may be listed below.
Additional Departmental Graduation Requirements

In the B.S. program in Civil Engineering, the student must earn a C or better in each CE prefix course, except that a maximum of one D is permitted in a CE prefix course numbered 400 or higher. In addition, a C or better must be earned in EM 221 and EM 302.

In the Mining Engineering Department, the student must have earned a grade of C or better in the following courses that are valuable for safe operation of mines: MNG 341, Mine Ventilation; MNG 551, Rock Mechanics; MNG 591, Mine Design Project I; and MNG 592, Mine Design Project II.

Second Bachelor’s Degree Requirements

A student who has earned a bachelor’s degree in the College of Engineering may earn a second bachelor’s degree by meeting the following three conditions on the work applicable to the second degree:

1. The student must have been admitted to engineering standing in the program leading to the second degree at least for the final semester, or equivalent terms, prior to the completion of the degree requirements, and must be enrolled as a student in that degree program during the final semester or term.

2. The student must complete a minimum of 15 credit hours of departmentally approved courses at or above the 300 level.

3. To earn a second degree, a student must complete all degree requirements in that program.

ACADEMIC ADVISING

Sophomores, juniors, and seniors are advised by faculty in the department of the student’s major. Professional staff provide academic advising and support services to entering freshman students through the Freshman Advising Center.

It is the students’ responsibility to satisfy University and College requirements with consultation from their advisor.

PROBATION AND ACADEMIC SUSPENSION

Students should refer to the Academic Requirements section of this Bulletin for information concerning the College of Engineering’s probation and academic suspension rules.

BACHELOR OF SCIENCE IN BIOSYSTEMS AND AGRICULTURAL ENGINEERING

Biosystems and agricultural engineering provides an essential link between the biological sciences and the engineering profession. This linkage is necessary for the development of production and processing systems involving biological materials that preserve our natural resource base. Students have the latitude to develop an area of specialization relating to environmental engineering, biotechnology, food processing, machine systems, or controlled environment engineering. The curriculum is also ideal preparation for those students wanting to pursue a graduate or professional degree in biomedical engineering or veterinary medicine through the pre-biomedical and pre-veterinary medicine options.

Engineers completing this program of study find employment in industries related to the production and processing of biological products. Opportunities include placement with manufacturers, consulting firms, or state and federal regulatory agencies. Biosystems and agricultural engineers may work in the areas of biomedical/biotechnology; environmental engineering; agricultural equipment; heating, ventilation, and refrigeration equipment; food processing industries; livestock equipment and housing; or greenhouse structures.

The educational objectives for the biosystems and agricultural engineering program are as follows:

- educate engineers to design components and/or processes for advancement of agricultural, biological, or environmental systems; and
- prepare engineers for successful careers in industry, government, consulting firms, or academia. Successful careers begin with employment in their chosen field or admission to graduate and professional programs, continue with steady achievement, and include professional development.

Degree Requirements

Each student must complete the following:

University Studies Requirements Hours
See “University Studies Program” on pages 77-81 for the complete University Studies Requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Math
MA 113 Calculus I ........................................ 4
MA 114 Calculus II ........................................ 4
MA 213 Calculus III ...................................... 4
MA 214 Calculus IV ....................................... 3
PHY 231 General University Physics ............... 4
PHY 241 General University Physics Laboratory ... 1
PHY 232 General University Physics .................. 4
PHY 242 General University Physics Laboratory ... 1
CS 221 First Course in Computer Science for Engineers ........................................... 2
EM 221 Statistics ........................................... 3

Subtotal: Premajors Hours ................................ 43

Major Requirements Hours
BAE 102 Introduction to Biosystems Engineering .... 1
BAE 103 Energy in Biological Systems .................. 2
BAE 201 Economic Analysis for Biosystems .......... 2
BAE 202 Probability and Statistics for Biosystems .... 3
BAE 305 DC Circuits and Microelectronics ............ 3
BAE 400 Senior Seminar .................................... 1
BAE 402 Biosystems and Agricultural Engineering Design I ............................................... 2
BAE 403 Biosystems and Agricultural Engineering Design II ............................................... 2
BIO 150 Principles of Biology I .......................... 3
BIO 152 Principles of Biology II .......................... 3
EE 305 Electrical Circuits and Electronics ............... 3
EM 302 Mechanics of Deformable Solids ............... 3
EM 313 Dynamics .......................................... 3
CE 106 Computer Graphics and Communication .... 3
CE 341 Introduction to Fluid Mechanics ............... 4
ME 220 Engineering Thermodynamics .................. 3
ME 325 Elements of Heat Transfer ...................... 3
ME 340 Introduction of Mechanical Systems .......... 3

Subtotal: Major Hours ....................................... 47

Electives
Biological Science Elective ................................ 3
Free Elective .................................................. 3

Core Electives (choos 3 of the following 4 courses)
BAE 417 Design of Machine Systems .................. 3
BAE 427 Structures and Environment Engineering .... 3
BAE 437 Land and Water Resources Engineering .... 3
BAE 447 Bioprocess Engineering Fundamentals ....... 3

Technical Electives (chosen by the student and leading to a concentration in one area of study) ........ 12

Subtotal: Electives ............................................. 27
TOTAL HOURS .................................................. 132

Curriculum

The following curriculum meets the requirements for a B.S. in biosystems and agricultural engineering, provided the student satisfies the graduation requirements listed earlier.

Freshman Year

First Semester Hours
BAE 102 Introduction to Biosystems Engineering .......... 1
CHE 105 General College Chemistry I .................... 3
ENG 104 Writing: An Accelerated Foundation Course .... 4
COM 199 Presentation Communication Skills ............ 1
BAE 402 Biosystems and Agricultural Engineering Design I (25 percent of 2-credit course) .......... 1/2
BAE 403 Biosystems and Agricultural Engineering Design II (25 percent of 2-credit course) .... 1/2

Natural Sciences
PHY 231 General University Physics ...................... 4
PHY 232 General University Physics ...................... 4

Premajors Requirements Hours
ENG 104 Writing: An Accelerated Foundation Course .... 4
ENG 2XX Writing Intensive Course ...................... 3
CHE 105 General College Chemistry I .................... 3
CHE 107 General College Chemistry II ................. 3

Second Semester
BAE 103 Energy in Biological Systems ................. 2
CHE 107 General College Chemistry II ................. 3
CS 221 First Course in Computer Science for Engineers ........................................... 2
MA 114 Calculus II ........................................... 4
PHY 231 General University Physics ..................... 4
PHY 241 General University Physics Laboratory .......... 1
<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>First Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAE 201 Economic Analysis for Biosystems</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BIO 150 Principles of Biology I</td>
<td>3</td>
<td></td>
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<tr>
<td>EM 221 Statics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MA 213 Calculus III</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHY 232 General University Physics</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHY 242 General University Physics Laboratory</td>
<td>1</td>
<td></td>
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</tbody>
</table>

**Second Semester**

| BAE 202 Probability and Statistics for Biosystems | 3 |
| BIO 152 Principles of Biology II | 3 |
| ENG 2XX Writing Intensive Course | 3 |
| or | | |
| USP Humanities/Cross-Cultural Elective | 3 |
| EM 302 Mechanics of Deformable Solids | 3 |
| ME 214 Calculus IV | 3 |
| ME 220 Engineering Thermodynamics I | 3 |

**Junior Year**

| COM 199 Presentational Communication Skills | 1 |
| ME 325 Elements of Heat Transfer | 3 |
| BAE 305 DC Circuits and Microelectronics | 3 |
| Core** or Technical Elective*** | 3 |
| Technical Elective*** | 3 |
| University Studies* | 3 |

**Senior Year**

| BAE 402 Biosystems and Agricultural Engineering Design I | 2 |
| ME 340 Introduction to Mechanical Systems | 3 |
| BAE 400 Senior Seminar | 1 |
| Core** or Technical Elective*** | 3 |
| Free Elective | 3 |
| University Studies* | 3 |

**Second Semester**

| BAE 403 Biosystems and Agricultural Engineering Design II | 2 |
| Core** or Technical Elective*** | 3 |
| Technical Electives*** | 6 |
| University Studies* | 6 |

To be selected from University Studies areas in Social Sciences, Humanities, Cross-Cultural and Electives in consultation with the academic advisor. A minimum of 15 credits in the humanities and social sciences are required.

**A minimum of 9 hours are required from the biosystems and agricultural engineering core courses: BAE 417 Design of Machine Systems, BAE 427 Structures and Environment Engineering, BAE 437 Land and Water Resources Engineering, and BAE 447 Bioprocess Engineering Fundamentals.

***A minimum of 12 hours are to be taken in addition to the 9 core hours selected by the student. The technical electives allow the student an opportunity to concentrate or gain depth in one or more of the various specialty areas of biosystems and agricultural engineering. The technical electives must be selected from the courses listed below and approved by the student’s academic advisor. Other courses may be considered, each on its individual merit. In selecting technical electives students must concentrate their work in one or more of the professional areas of biosystems and agricultural engineering. These areas include: bio-environmental engineering, food and bioprocess engineering, machine systems/automation engineering and controlled environment engineering. Interested students are encouraged to contact the Department of Biosystems and Agricultural Engineering to discuss technical elective sequences.


†Free electives are any University course excluding more elementary versions of required courses such as pre-calculus math or PHY 211.

**BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING**

A foundation in mathematics, chemistry, and physics is required for the study of chemical engineering. Fundamental principles related to the transformations of matter and energy are developed in areas such as thermodynamics, mass transfer, reactor design, and chemical process design. Undergraduate elective options are available in polymers and environmental protection. A program is also available to fulfill premedical and predental requirements simultaneously with requirements for the B.S. in chemical engineering.

The education outcomes of the undergraduate education program are as follows:

- prepare students for successful chemical engineering practice and/or academic pursuits;
- provide a broad education as a foundation for life-long learning; and
- equip students with the ability to carry out in-depth solution strategies to chemical engineering problems.

**Degree Requirements**

The following curriculum meets requirements for the B.S. in chemical engineering, provided the student satisfies the graduation requirements listed earlier.

Each student must complete the following:

**University Studies Requirements**

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

**Premajor Requirements**

| ENG 104 Writing: An Accelerated Foundational Course | 4 |
| CHE 105 General College Chemistry I | 3 |
| CHE 107 General College Chemistry II | 3 |
| CHE 111 Laboratory to Accompany General Chemistry I | 1 |
| CHE 113 Laboratory to Accompany General Chemistry II | 2 |
| CME 200 Process Principles | 3 |
| CME 199 Computational Tools in Chemical Engineering | 3 |
| MA 113 Calculus I | 4 |
| MA 114 Calculus II | 4 |
| MA 213 Calculus III | 4 |
| MA 214 Calculus IV | 3 |
| PHY 231 General University Physics | 4 |
| PHY 232 General University Physics | 4 |
| PHY 241 General University Physics Laboratory | 1 |

**Subtotal: Premajor Requirements:** 43

**Major Requirements**

| CME 101 Introduction to Chemical Engineering | 3 |
| CME 199 Presentational Communication Skills | 3 |
| CHE 230 Organic Chemistry I | 3 |
| CHE 231 Organic Chemistry Laboratory I | 3 |
| CHE 232 Organic Chemistry II | 3 |
| CHE 446G Physical Chemistry for Engineers | 3 |
| MSE 201 Materials Science | 3 |
| CME 320 Engineering Thermodynamics | 3 |
| CME 415 Separation Processes | 3 |
| CME 471 Seminar | 1 |
| CME 006 The Engineering Profession (3 semesters) | 0 |
| CME 330 Fluid Mechanics | 3 |
| CME 470 Professionalism, Ethics and Safety | 1 |
| CME 420 Process Modeling in Chemical Engineering | 3 |
| CME 425 Heat and Mass Transfer | 4 |
| CME 432 Chemical Engineering Laboratory I | 2 |
| CME 433 Chemical Engineering Laboratory II | 3 |
| CME 455 Chemical Engineering Process Design I | 3 |
| CME 550 Chemical Reactor Design | 3 |
| CME 456 Chemical Engineering Process Design II | 4 |
| CME 462 Process Control | 3 |

**Subtotal: Major Hours:** 56

In addition to the premajor and major requirements, students must complete the following:

**Chemical Engineering Electives Hours**

Total of 6 credit hours must be chosen. Courses recommended are listed below. Other courses may be considered, each on its individual merit.

| CME 395 Special Problems in Chemical Engineering | 3 |
| CME 404G Polymeric Materials | 3 |
| CME 505 Analysis of Chemical Engineering Problems | 3 |
| CME 515 Air Pollution Control | 3 |
| CME 554 Chemical and Physical Processing of Polymer Systems | 3 |
| CME 580 Design of Rate and Equilibrium Processes for Water Pollution Control | 3 |
| CME 599 Topics in Chemical Engineering | 3 |

**Technical Electives**

Select one (must be a 3 or more credit hour course) from the following:

CME 395, 404G, 505, 515, 554, 580, 583; CHE 226 and all above 441; CS 320 and above; MA 321, 322, 416G, 432G, 435G, 471G, 481G; PHY any above 241; STA 381 and higher; BCH 401G, 501; MSE 401G, 402G, 403G, 462, 550; any BIO 150 and above; any Engineer- ing course above that required, e.g. above ME 330.

**Chemistry Elective** (must total 3 credits)

CHE 226 and above (if not taken as technical elective).

**Supportive Elective** (must total 3 credits)

The supportive elective can be any course that carries college credit and is not a more elementary version of a required course. For example, college algebra would not be satisfactory because it is more elementary than the required calculus courses. The student completing 3 co-op tours (EGR 399) may count the co-op experience toward the supportive elective.

**Subtotal: Electives:** 15

**Graduation Writing Requirement**

ENG 2XX Writing Intensive Course | 3

**TOTAL HOURS:** 132
Curriculum

Freshman Year

First Semester

Hours
CME 101 Introduction to Chemical Engineering.........................1
CHE 105 General College Chemistry I.................................3
CHE 111 Laboratory to Accompany General Chemistry I..............1
ENG 104 Writing: An Accelerated Foundational Course.................4
MA 113 Calculus I................................................................3
University Studies*................................................................3

Second Semester

CME 199 Computational Tools in Chemical Engineering..............3
CHE 107 General College Chemistry II..................................3
CHE 113 Laboratory to Accompany General Chemistry II.............2
MA 114 Calculus II................................................................4
COM 199 Presentational Communication Skills.........................1
University Studies*................................................................3

Sophomore Year

First Semester

Hours
CME 200 Process Principles..................................................3
MA 213 Calculus III...............................................................4
PHY 231 General University Physics........................................4
PHY 241 General University Physics Laboratory.......................1
CHE 230 Organic Chemistry I...............................................3
CHE 231 Organic Chemistry Laboratory I................................2

Second Semester

CME 320 Engineering Thermodynamics..................................4
CHE 232 Organic Chemistry II..............................................3
MSE 201 Materials Science..................................................3
MA 214 Calculus IV...............................................................3
PHY 232 General University Physics........................................4

Junior Year

First Semester

Hours
CME 415 Separation Processes..............................................3
CME 471 Seminar................................................................1
CHE 446G Physical Chemistry for Engineers..........................3
CME 330 Fluid Mechanics....................................................3
Technical Elective***............................................................3
ENG 2XX Writing Intensive Course.........................................3

Second Semester

CME 006 The Engineering Profession (Junior and Senior)............0
CME 420 Process Modeling in Chemical Engineering................3
CME 425 Heat and Mass Transfer...........................................4
CME 432 Chemical Engineering Laboratory I..........................2
CHE Elective†....................................................................3
University Studies*.............................................................6

Senior Year

First Semester

Hours
CME 006 The Engineering Profession (Junior and Senior)............0
CME 470 Professionalism, Ethics and Safety............................1
CME 433 Chemical Engineering Laboratory II..........................3
CME 455 Chemical Engineering Process Design I....................3
CME 550 Chemical Reactor Design........................................3
Supportive Elective.............................................................3
CME Elective......................................................................3

Second Semester

CME 006 The Engineering Profession (Junior and Senior)............0
CME 456 Chemical Engineering Process Design II....................3
CME 462 Process Control......................................................3
University Studies*.............................................................3
CHE Elective......................................................................3
Bio Elective or Materials Elective............................................3

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING – PADUCAH

In addition to the program on the Lexington campus, students can pursue a B.S. degree in chemical engineering through the College’s Extended Campus Program in Paducah, Kentucky. The Paducah program uses the same curriculum as the main campus, but provides the opportunity for students to complete all B.S. degree requirements without having to relocate to Lexington.

Consistent with the Vision and Mission statements of the University of Kentucky, the chemical engineering program at the UK Extended Campus in Paducah strives to meet the following specific educational objectives:

- Prepare our students for successful chemical engineering practice and/or academic pursuits with a broad education as a foundation for life-long learning and with the ability to carry out in-depth solution strategies to chemical engineering problems,
- Offer a program that complies with ABET 2000 Engineering Criteria and set educational objectives that are consistent with the College of Engineering’s Vision and Mission statements using input from constituencies (students, faculty, alumni, and employers), and develop a process for ongoing evaluation and review of the objectives to ensure the program curriculum and processes achieve education objectives.

The Paducah chemical engineering program collaborates with West Kentucky Community and Technical College to provide the basic math and science courses, as well as the general studies course requirements. Murray State University faculty members teach upper-level non-engineering courses on the Paducah campus. On-site UK chemical engineering faculty members and jointly-appointed Murray engineering faculty members teach the upper-division engineering courses. Program admission, course registration, student advising and other student services all can be completed at the Paducah site.

Degree Requirements

The curriculum requirements for the B.S. degree in chemical engineering in Paducah are identical to those on the Lexington campus. Refer to those degree requirements for the Paducah degree program. Not all the technical electives listed for the Lexington program will be available in Paducah. The student must satisfy the College graduation requirements listed earlier.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The student of civil engineering has a broad field of study to provide a strong foundation for entry into the profession or graduate school. Major areas include construction engineering, environmental engineering, geotechnical engineering, materials engineering, structural engineering, transportation engineering, and water resources engineering.

The civil engineering program at the University of Kentucky strives to meet the following educational objectives:

- advise its students in the pursuit of academic success and monitor their progress;
- prepare its students for successful civil engineering careers; and
- provide its students with a broad education that will serve as the foundation for professional licensure and life-long learning.

Degree Requirements

The following curriculum meets the requirements for a B.S. in civil engineering, provided the student satisfies the graduation requirements listed earlier.

Each student must complete the following:

University Studies Requirements

Hours
See "University Studies Program" on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Math
MA 113 Calculus I.................................................................4
Inference - Logic
MA 113 Calculus I.................................................................4

*Selected from University Studies areas in Social Science (6 credits), Humanities (6 credits), Cross-Cultural (3 credits) and Electives (3 credits—one-half the requirement) in consultation with the academic advisor to assure ABET depth and breadth requirements.

**Supportive elective is to be chosen from any University course, excluding an elementary version of a required course, such as precalculus mathematics or PHY 211.

CME Electives: Courses recommended as Chemical Engineering electives are listed below. Other courses will be considered, each on its individual merit.

CME 395 Special Problems in Chemical Engineering
CME 404G Polymers Materials
CME 505 Analysis of Chemical Engineering Problems
CME 515 Air Pollution Control
CME 554 Chemical and Physical Processing of Polymer Systems

CME 580 Design of Rate and Equilibrium Processes for Water Pollution Control
CME 599 Topics in Chemical Engineering

***Technical elective (must be a 3 or more credit hour course) and may be selected from the following:

CME 395, 404G, 505, 515, 554, 580; CHE 226 and all above 441; CS 320 and above; MA 321, 322, 416G, 425G, 432G, 433G, 471G, 481G; PHY any above 241; STA 381 and higher; BCH 401G, 501; MSE 401G, 402G, 403G, 550; any BIO 150 and above course; any engineering course above that required, e.g. above ME 330.

†CHE elective (must total 3 credits): CHE 226 and above (if not taken as technical elective).
Curriculum

Freshman Year

First Semester | Hours
---|---
CE 120 Introduction to Civil Engineering | 1
ENG 104 Writing: An Accelerated Foundational Course | 4
MA 113 Calculus I | 4
MA 214 Calculus IV | 4
MA 113 Calculus I | 4
MA 214 Calculus IV | 4
PHY 241 General University Physics Laboratory | 1

Second Semester

| CE 106 Computer Graphics and Communication | 3
CE 120 Introduction to Civil Engineering | 1
CE 211 Surveying | 4
CHE 105 General College Chemistry I | 3
CHE 105 General College Chemistry I | 3
EM 211 Statics | 3
ENG 104 Writing: An Accelerated Foundational Course | 4
MA 113 Calculus I | 4
MA 114 Calculus II | 4
MA 213 Calculus III | 4
PHY 241 General University Physics | 4
PHY 241 General University Physics | 4

Subtotal: Premajor Hours | 38

Major Requirements

First Semester | Hours
---|---
STA 381 Introduction to Engineering Statistics | 3
CE 303 Introduction to Construction Engineering | 4
CE 331 Transportation Engineering | 3
CE 341 Introduction to Fluid Mechanics | 4
CE 351 Introduction to Environmental Engineering | 3
CE 381 Civil Engineering Materials I | 3
CE 382 Structural Analysis | 3
CE 401 Seminar | 1
CE 429 Civil Engineering Systems Design | 4
CE 461G Hydrology | 3
CE 471G Soil Mechanics | 3
CS 221 First Course in Computer Science | 4
MNG 303 Deformable Solids Laboratory | 4

Second Semester

| CE 351 Introduction to Environmental Engineering | 3
CE 382 Structural Analysis | 3
CE 471G Soil Mechanics | 4
CS 221 First Course in Computer Science | 4
HIS 107 Western Culture: Science and Technology II [R] | 3
ENG 104 Writing: An Accelerated Foundational Course | 4

Junior Year

First Semester

| CE 303 Introduction to Construction Engineering** | 4
CE 331 Transportation Engineering** | 3
CE 341 Introduction to Fluid Mechanics | 4
CE 381 Civil Engineering Materials I** | 3

Second Semester

| CE 351 Introduction to Environmental Engineering | 3
CE 382 Structural Analysis | 3
CE 471G Soil Mechanics | 4
CS 221 First Course in Computer Science for Engineers | 4
HIS 107 Western Culture: Science and Technology II [R] | 3
Math Elective or Science Elective [3] | 3

Senior Year

First Semester

| CE 401 Seminar** | 1
CE 461G Hydrology** | 3
Structures Elective [4] | 3
Technical Electives*** | 6
USP Humanities Elective [5] | 3

Second Semester

| CE 429 Civil Engineering Systems Design** | 4
CE 471G Soil Mechanics | 4
Supportive Elective [7] | 3
Technical Elective*** | 3
USP Cross-Cultural Elective [5] | 3

[R] Recommended University Studies course.

**CE communication throughout the curriculum component.

***Technical Electives are to be chosen from any of the courses at the 300-level or above that carry a CE prefix and in which a student is qualified to enroll, exclusive of required courses. CHE 230 or CHE 236 is acceptable. Engineering elective courses are typically taught once per year.

Subtotal: Electives | 42

TOTAL HOURS: | 133

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[1] To be chosen from COM 252 or COM 281.
[2] To be chosen from ME 220 or EM 313.
[4] To be selected from: CE 482 (non-structural option) or CE 486G and CE 487G (technical elective).
[5] Either the Humanities or Cross-Cultural Elective can be used to simultaneously satisfy the second- and third-tier University Writing requirement. In the Humanities area, choosing the ENG 300-level humanities courses satisfies both. In the Cross-Cultural area, ENG 246 satisfies both. Only one second-tier writing course is required to meet the graduation writing requirements. Completion of the second-tier course must be in the sophomore year or later and after ENG 104.
[6] Choose from: CE 403, 451, 505, 533, 539, 549, 579, or 589. (NOTE: CE 579 is a co-requisite for CE 589.)
[7] Supportive elective is to be chosen from any University course, excluding a more elementary version of a required course, such as precalculus mathematics or PHY 211. However, each CE area has at least one recommendation for the supportive elective. Please review the Optional Specialization section in the Civil Engineering Undergraduate Handbook. The supportive elective can be taken pass-fail.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Joint-Degree Program Offered by Western Kentucky University (WKU) and the University of Kentucky (UK)

As part of the “Strategy for Statewide Engineering Education in Kentucky,” adopted July 17, 2000 by all the chief executive officers of Kentucky universities and endorsed by the Kentucky Council on Postsecondary Education (CPE), the vision was expressed that “access to undergraduate engineering education will expand primarily through the creation of joint programs managed by multiple postsecondary institutions.” In response, WKU and UK now jointly offer an ABET-accredited baccalaureate degree in civil engineering on the WKU campus in Bowling Green, Kentucky. By CPE definition, a joint-degree program is “a program that is mutually sponsored by two or more institutions leading to a single credential or degree, which is conferred by both or all participating institutions. All institutions share responsibility for all aspects of the program’s delivery and quality.”

The joint civil engineering program is one of only four such joint-degree programs in Kentucky; the others include a joint-degree program between WKU and UK in mechanical engineering, between WKU and the University of Louisville (UL) in electrical engineering, and between Murray State University and UL in electrical and telecommunications engineering.

The WKU/UK joint programs emphasize a project-oriented educational approach. Courses are provided by both WKU and UK faculty. Students are required to complete a minimum of 16 credit hours of engineering course work taught by UK engineering faculty. At present, the UK contribution is provided by distance delivery via interactive tele-
vision. The curriculum of the joint civil engineering program is under the direction of a joint faculty, with equal representation from each participating institution. The curriculum for entering students requires 135.5 credit hours, with the General Studies component based on the requirements of WKU. Students who complete the program will receive a B.S. degree conferred jointly by WKU and UK. Under the terms of the agreements between the degree-awarding institutions, WKU provides basic administrative support for students in the joint-degree program, including admission services, registration, and student financial aid. In addition, academic advising, laboratory and equipment support, and library and media resources are supplied by WKU.

The civil engineering curriculum approved within UK is listed below. The joint program faculty, with equal representation based on the requirements of WKU.

### Degree Requirements

#### Freshman Year

**Fall Semester**

<table>
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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CE 175 Freshman Experience</td>
<td>2</td>
</tr>
<tr>
<td>AMS 202 CADD for Architecture</td>
<td>3</td>
</tr>
<tr>
<td>MATH 126 Calculus I</td>
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<tr>
<td>GEOG 111/113 Physical Geology &amp; Lab</td>
<td>4</td>
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<tr>
<td>HIST 119 or 120 Western Civilization</td>
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<tr>
<td>Total</td>
<td>16.5</td>
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**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CE 160/161 Surveying I &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>MATH 227 Calculus II</td>
<td>4.5</td>
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<tr>
<td>PHYS 250/251 Physics I/ Lab</td>
<td>4</td>
</tr>
<tr>
<td>COMM 161 or 145 Public Speaking</td>
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</tr>
<tr>
<td>ENG 100 Freshman English</td>
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<td>Total</td>
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#### Sophomore Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CE 303 Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CE 304 Construction Mgmt. Lab</td>
<td>1</td>
</tr>
<tr>
<td>EM 221 Statics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 327 Multivariable Calculus</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 120/121 Chemistry I &amp; Lab</td>
<td>5</td>
</tr>
<tr>
<td>SFTY 171 Category F</td>
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<td>Total</td>
<td>17</td>
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**Spring Semester**

<table>
<thead>
<tr>
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<th>Hours</th>
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<tbody>
<tr>
<td>EM 302 Mech of Deform Solids</td>
<td>3</td>
</tr>
<tr>
<td>ME 331 Strength Of Mat Lab</td>
<td>1</td>
</tr>
<tr>
<td>MATH 331 Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 260/261 Physics II &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>Category A - II Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>ENG 200 Intro to Literature</td>
<td>3</td>
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#### Junior Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CE 382 Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CE 410/411 Soil Mechanics &amp; Lab</td>
<td>4</td>
</tr>
<tr>
<td>CE 341 Introduction to Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>STAT 301 Prob &amp; Applied Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 300 Junior English</td>
<td>3</td>
</tr>
<tr>
<td>Category F Health &amp; Wellness Elec</td>
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<tr>
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**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 316 Equipment &amp; Methods</td>
<td>3</td>
</tr>
<tr>
<td>CE 331 Transportation Eng</td>
<td>3</td>
</tr>
<tr>
<td>CE 370 Materials of Construction</td>
<td>3</td>
</tr>
<tr>
<td>CE 412 Foundation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CE Structures Elective</td>
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</tr>
<tr>
<td>CE Technical Elective</td>
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<td>Total</td>
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#### Senior Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CE 351 Intro to Environmental Eng</td>
<td>3</td>
</tr>
<tr>
<td>CE 461 Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>CE Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>CE 400 Senior Design Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Category B-II Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>Category C-Soc &amp; Behav Sci Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
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</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 498 Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>CE Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td>Category B-II Humanities Elective</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202E Economics</td>
<td>3</td>
</tr>
<tr>
<td>Category C Cultural Elective</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

### BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

The Computer Engineering program prepares students for a productive career through developing strong foundations in math, physics, computer, and general engineering skills necessary for contributing to a rapidly developing field. Computer engineering centers on integrating hardware and software to create computing systems through combining computing hardware concepts from electrical engineering with system software issues from computer science. In the junior and senior years the program includes courses in specific application areas such as embedded systems, computer architecture, compilers, operating systems, digital logic design, software engineering, and networking.

The undergraduate education program focuses on achieving the following goals:

- Maintain a curriculum focused on developing relevant engineering skills, knowledge, and experience with current technologies.
- Provide opportunities for students to develop leadership, communication, and teamwork skills.
- Provide an environment that encourages independent learning, problem identification, and problem solving.
- Raise awareness of the engineers’ professional and ethical responsibilities to society.

### Degree Requirements

Each student must complete the following:

#### University Studies Requirements

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.

#### Premajor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 115 Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS 215 Introduction to Program Design</td>
<td>3</td>
</tr>
<tr>
<td>Abstraction, and Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>EE 211 Circuits I</td>
<td>4</td>
</tr>
<tr>
<td>EE 280 Design of Logic Circuits</td>
<td>3</td>
</tr>
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</table>

**Subtotal: Premajor Hours** 14

#### Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EE 101 Electrical Engineering Professions Seminar</td>
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</tr>
<tr>
<td>CS 100 The Computer Science Profession</td>
<td>1</td>
</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>MA 114 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>CS 216 Introduction to Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CS 275 Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 231 General University Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 241 General University Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MA 213 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>PHY 232 General University Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 242 General University Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MA 214 Calculus IV</td>
<td>3</td>
</tr>
<tr>
<td>EE 221 Circuits II</td>
<td>3</td>
</tr>
<tr>
<td>EE 222 Electrical Engineering Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>EE 281 Logical Design Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EE/CS 380 Microcomputer Organization</td>
<td>3</td>
</tr>
<tr>
<td>EE 383 Introduction to Embedded Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS 315 Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CS 441G Compilers for Algorithmic Languages</td>
<td>3</td>
</tr>
<tr>
<td>CS 470G Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 480/CS 480G Advanced Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>EE 421G Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>EE 461G Introduction to Electronics</td>
<td>3</td>
</tr>
<tr>
<td>STA 381 Introduction to Engineering Statistics</td>
<td>3</td>
</tr>
<tr>
<td>EE 499 Electrical Engineering Design (Subtitle required)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal: Major Hours** 73

#### Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Oral Communication Elective*</td>
<td>3</td>
</tr>
<tr>
<td>Supportive Elective**</td>
<td>6</td>
</tr>
<tr>
<td>Technical Elective†</td>
<td>3</td>
</tr>
<tr>
<td>EE/CS Technical Electives††</td>
<td>12</td>
</tr>
</tbody>
</table>

**Subtotal: Electives** 24

**Total Minimum Hours for Program** 128
Curriculum

First Semester Hours
MA 113 Calculus I ......................................................... 4
EE 101 Electrical Engineering Professions Seminar or
CS 100 The Computer Science Profession ................. 1
ENG 104 Writing: An Accelerated
Foundational Course ................................................... 4
CHE 105 General College Chemistry I ....................... 4
CS 115 Introduction to Computer Programming .......... 3
USP Humanities ........................................................ 3

Second Semester
MA 114 Calculus II .................................................... 4
PHY 231 General University Physics ...................... 4
PHY 241 General University Physics Laboratory .... 1
Oral Communication Elective ..................................... 3
CS 215 Introduction to Program Design,
Abstraction, and Problem Solving ......................... 4

Sophomore Year
First Semester Hours
MA 213 Calculus III .................................................... 4
EE 211 Circuits I ......................................................... 4
PHY 232 General University Physics ...................... 4
PHY 242 General University Physics Laboratory .... 1
EE 280 Design of Logic Circuits ................................ 3
EE 281 Logical Design Laboratory ......................... 2

Second Semester
MA 214 Calculus IV .................................................. 3
CS 275 Discrete Mathematics ......................................... 4
CS 216 Introduction to Software Engineering ......... 3
EE/CS 380 Microcomputer Organization .................. 3
USP Humanities/Writing Intensive Course .............. 3

Junior Year
First Semester Hours
EE 221 Circuits II ...................................................... 3
EE 222 Electrical Engineering Laboratory I .......... 2
CS 315 Algorithm Design and Analysis ................. 3
EE 383 Introduction to Embedded Systems ............. 3
USP Social and Behavioral Sciences ..................... 3
STA 381 Introduction to Engineering Statistics ...... 3

Second Semester
EE 461G Introduction to Electronics ......................... 3
CS 470G Introduction to Operating Systems .......... 3
EE 480/CS 480G Advanced
Computer Architecture ........................................... 3
USP Social and Behavioral Sciences ..................... 3
EE 421G Signals and Systems ..................................... 3

Senior Year
First Semester Hours
CS 441G Compilers for Algorithmic Languages .... 3
EE/CS Technical Electives ......................................... 6
Supportive Elective .................................................. 3
Technical Elective ...................................................... 3

Second Semester
EE 499 Electrical Engineering Design (Subtitle required)
or
CS 499 Senior Design Project ......................... 3
EE/CS Technical Electives ......................................... 6
Supportive Elective .................................................. 3
USP Cross Cultural .................................................. 3

Technical elective may be selected from upper-division
engineering, mathematics, statistics, computer science,
physics, or other technically-related fields excluding
more elementary version of required courses, such as precalculus mathematics or PHY 211.

Recommended EE/CS Technical Electives:
CS 405G Introduction to Database Systems
CS 415G Graph Theory
CS 416G Principles of Operations Research I
CS 422 Numerical Solutions of Equations
CS 450G Fundamentals of Programming Languages
CS 463G Introduction to Artificial Intelligence
CS 471G Networking and Distributed Operating Systems
CS 485G Topics in Computer Science (Subtitle required)
EE 581 Advanced Logical Design
EE 582 Hardware Description Languages and Programmable Logic
EE 584 Introduction of VLSI Design and Testing
EE 585 Fault Tolerant Computing
EE 586 Communication and Switching Networks
EE 587 Microcomputer Systems Design
EE 599 Topics in Electrical Engineering

Subtotal: Technical Electives .............................................. 12
Subtotal: CS Electives ..................................................... 13

Total Hours ................................................................. 41

BACHELOR OF SCIENCE IN
COMPUTER SCIENCE

The Computer Science program includes courses
dealing with the design, implementation,
analysis, and software-engineering issues
related to algorithms and computer programs.
A foundation in continuous and discrete
mathematics is used to study numerical
problems and to analyze algorithms. Through
required and elective courses students are
exposed to the fundamentals of computing
theory and algorithms, programming languages,
language translation and compiling, graphics,
scientific computing, artificial intelligence,
networks, databases, and operating systems.
The undergraduate program focuses on
achieving the following goals:

- attract talented, motivated students with a strong background in
  mathematics and the sciences, some familiarity with computers and a desire to
  shape the future;
- develop the skills needed to analyze
  and synthesize solutions to computing
  problems;
- develop communications and teamwork
  skills in our students;
- open the doors to exciting, creative
  and economically-rewarding career
  opportunities;
- pave the way to educational opportunities at the graduate level; and
- instill a desire and ability for life-long learning in our students.

Degree Requirements

Each student must complete the following:

University Studies Requirements

See “University Studies Program” on pages 77-81 for
the complete University Studies requirements. Students
should work closely with their advisor to complete the
University Studies Program requirements.

Courses marked with an asterisk (*) may also be used
to satisfy University Studies requirements.

Premajor Requirements Hours
CS 100 The Computer Science Profession .................. 1
CS 115 Introduction to Computer Programming .......... 3
CS 215 Introduction to Program Design,
Abstraction, and Problem Solving ......................... 4
CS 216 Introduction to Software Engineering .......... 3
CS 275 Discrete Mathematics ................................... 4
ENG 104 Writing: An Accelerated
Foundational Course .................................................. 4
MA 113 Calculus I ..................................................... 4
MA 114 Calculus II .................................................. 4
PHY 231 General University Physics ...................... 4
PHY 241 General University Physics Laboratory .... 1

Subtotal: Premajor Hours .............................................. 32

Major Requirements Hours
CS 315 Algorithm Design and Analysis .................... 3
CS/MA 321 Introduction to Numerical Methods .. 3
CS 375 Logic and Theory of Computing ................... 3
CS/EE 380 Microcomputer Organization .................. 3
CS 470G Introduction to Operating Systems .......... 3
CS 499 Senior Design Project ................................. 3

Subtotal: Major Hours ................................................. 41-42

Computer Science Electives Hours
Choose three from the following list:
CS 335 Graphics and Multimedia ......................... 3
CS 405G Introduction to Database Systems .......... 3
CS 441G Compilers for Algorithmic Languages ...... 3
CS 450G Fundamentals of Programming Languages .... 3
CS 463G Introduction to Artificial Intelligence .... 3
Any other CS class at the 300-level or above .......... 3

Subtotal: CS Electives ................................................. 9

Technical Electives

Choose 12 credit hours of the following:
MA 214 Calculus IV or any 300-level or higher classes
selected from computer science, electrical engineering,
mathematics, or the College or Business and Economics

Subtotal: Technical Electives ........................................ 12

Free Electives

Two courses must be in areas other than computer
science, science, engineering, or mathematics to satisfy
the University Studies Program and the computer science
ABET accreditation requirements. Any remaining elec-
tives should be selected to meet the minimum total of 128
hours required for graduation

Subtotal: Free Electives .............................................. 6

TOTAL HOURS .......................................................... 128
### Curriculum

#### Freshman Year

<table>
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<tr>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>First Semester</td>
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</tr>
<tr>
<td>CS 100 The Computer Science Profession</td>
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</tr>
<tr>
<td>CS 115 Introduction to Computer Programming</td>
<td>3</td>
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<tr>
<td>ENG 104 Writing: An Accelerated Foundational Course</td>
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</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
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<td>University Studies [U]</td>
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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>CS 215 Introduction to Program Design, Abstraction, and Problem Solving</td>
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<tr>
<td>ENG 104 Writing: An Accelerated Foundational Course</td>
<td>3</td>
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<tr>
<td>MA 114 Calculus II</td>
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#### Sophomore Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>First Semester</td>
<td></td>
</tr>
<tr>
<td>CS 216 Introduction to Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EE 280 Design of Logic Circuits</td>
<td>3</td>
</tr>
<tr>
<td>MA 213 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>or MA 322 Matrix Algebra and its Applications</td>
<td>3</td>
</tr>
<tr>
<td>PHY 231 General University Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 241 General University Physics Laboratory</td>
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<tr>
<td>University Studies [U]</td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CS 275 Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>CS/EE 380 Microcomputer Organization</td>
<td>3</td>
</tr>
<tr>
<td>PHY 232 General University Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY 242 General University Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>STA 281 Probability and Statistics Using Interactive Computer Techniques</td>
<td>3</td>
</tr>
<tr>
<td>University Studies [U]</td>
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#### Junior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>First Semester</td>
<td></td>
</tr>
<tr>
<td>CS 315 Algorithm Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CS/MA 321 Introduction to Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td>University Studies [U]</td>
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</tr>
<tr>
<td>ENS 2XX Writing Intensive Course</td>
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</tr>
<tr>
<td>Free Elective [E]</td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>CS 375 Logic and Theory of Computing</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Elective [C]</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective [T]</td>
<td>3</td>
</tr>
<tr>
<td>COM 181 Basic Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COM 252 Introduction to Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 281 Communication in Small Groups</td>
<td>3</td>
</tr>
<tr>
<td>COM 287 Persuasive Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science Elective [N]</td>
<td>3</td>
</tr>
<tr>
<td>Free Elective [E]</td>
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</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
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</tr>
<tr>
<td>CS 4700 Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Elective [C]</td>
<td>3</td>
</tr>
<tr>
<td>Technical Elective [T]</td>
<td>3</td>
</tr>
<tr>
<td>University Studies [U]</td>
<td>3</td>
</tr>
<tr>
<td>Free Elective [E]</td>
<td>3</td>
</tr>
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<table>
<thead>
<tr>
<th>Second Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 499 Senior Design Project</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Elective [C]</td>
<td>3</td>
</tr>
<tr>
<td>Technical Electives [T]</td>
<td>6</td>
</tr>
<tr>
<td>Free Elective [E]</td>
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</table>

#### University Studies Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two of the electives (6 credits) cannot be mathematics, computer science,</td>
<td>3</td>
</tr>
<tr>
<td>science or engineering courses; these two courses can be used to satisfy</td>
<td></td>
</tr>
<tr>
<td>the University Studies elective requirement.</td>
<td></td>
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</tbody>
</table>

#### Premajor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EE 211 Circuits I</td>
<td>4</td>
</tr>
<tr>
<td>EE 221 Circuits II</td>
<td>3</td>
</tr>
<tr>
<td>EE 222 Electrical Engineering Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>EE 280 Design of Logic Circuits</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal: Premajor Hours</strong></td>
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#### Major Requirements

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<tr>
<td>CHE 105 General College Chemistry I</td>
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<tr>
<td>CS 115 Introduction to Computer Programming</td>
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<tr>
<td>EE 101 Electrical Engineering Professions Seminar</td>
<td>1</td>
</tr>
<tr>
<td>EE 360 Introduction to Semiconductor Devices</td>
<td>3</td>
</tr>
<tr>
<td>EE 380 Computer Organization</td>
<td>3</td>
</tr>
<tr>
<td>EE 415G Electromechanics</td>
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<tr>
<td>EE 421G Signals and Systems</td>
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<tr>
<td>EE 461G Introduction to Electronics</td>
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<td>EE 468G Introduction to Engineering Electromagnetics</td>
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<tr>
<td>EE 499 Electrical Engineering Design</td>
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<td>ENG 104 Writing: An Accelerated Foundational Course</td>
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<td>Oral Communication Course</td>
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<tr>
<td>MA 113 Calculus I</td>
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<tr>
<td>MA 320 Introductory Probability</td>
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<tr>
<td>PHY 231 General University Physics</td>
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<td>PHY 232 General University Physics</td>
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<tr>
<td>PHY 241 General University Physics Laboratory</td>
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<tr>
<td>PHY 242 General University Physics Laboratory</td>
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<tr>
<td><strong>Choose three of the following lab courses:</strong></td>
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<tr>
<td></td>
<td>EE 281 Logical Design Laboratory</td>
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<tr>
<td></td>
<td>EE 416G Energy Conversion Laboratory</td>
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<td></td>
<td>EE 462G Electronic Circuits Laboratory</td>
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<td>EE 422G Signals and Systems Laboratory</td>
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#### Electives

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<td>Engineering/Science Electives</td>
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<tr>
<td>EE Technical Electives</td>
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<tr>
<td>Math/Statistics Elective</td>
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<tr>
<td>Supportive Elective</td>
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<tr>
<td>Technical Elective</td>
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<td><strong>TOTAL HOURS:</strong></td>
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#### Curriculum

#### Freshman Year

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<tr>
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<tr>
<td>EE 101 Electrical Engineering Professions Seminar</td>
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</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>CS 115 Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>ENG 104 Writing: An Accelerated Foundational Course</td>
<td>4</td>
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<tr>
<td>University Studies – Social Science</td>
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<tr>
<td>University Studies – Humanities</td>
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**Second Semester**

<table>
<thead>
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<tr>
<td>MA 114 Calculus II</td>
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<tr>
<td>PHY 231 General University Physics</td>
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</tr>
<tr>
<td>PHY 241 General University Physics Laboratory</td>
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<tr>
<td><strong>Oral Communications Elective (select one course from COM 181, COM 252, COM 281, COM 287) :</strong></td>
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<td><strong>Total: Oral Communications Elective Courses:</strong></td>
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**Sophomore Year**

<table>
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<tr>
<td>CS 216 Introduction to Software Engineering</td>
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<tr>
<td>EE 280 Design of Logic Circuits</td>
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</tr>
<tr>
<td>MA 213 Calculus III</td>
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<tr>
<td>PHY 231 General University Physics</td>
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</tr>
<tr>
<td>PHY 241 General University Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHY 242 General University Physics Laboratory</td>
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</tr>
<tr>
<td><strong>TOTAL HOURS:</strong></td>
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</tr>
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</table>

#### BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

The undergraduate electrical engineering degree program seeks to produce graduates who are trained in the theory and practice of electrical and computer engineering and are well prepared to handle the professional and leadership challenges of their careers.

The following objectives relate to expectations for program graduates while in the early stages of their careers. These objectives are regularly assessed through surveys of employers and alumni. The EE program objectives are:

- Maintain a curriculum focused on developing relevant engineering skills, knowledge, and experience with current technologies.
- Provide opportunities for students to develop leadership, communication, and teamwork skills.
- Provide an environment that encourages independent learning, problem identification, and problem solving.
- Raise awareness of the engineers’ professional and ethical responsibilities to society.

#### Degree Requirements

Each student must complete the following:

**University Studies Requirements**

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.
Second Semester
MA 214 Calculus IV .................................................. 3
EE 221 Circuits II ....................................................... 3
EE 222 Electrical Engineering Laboratory I .............. 2
EE 360 Introduction to Semiconductor Devices .......... 3
Engineering/Science Elective [E] ................................. 3
University Studies – Writing Requirement/ Humanities or Cross-Cultural* ............................................... 3

Junior Year
First Semester
EE 415G Electromechanics ........................................... 3
EE 421G Signals and Systems ........................................ 3
Elective EE Laboratory [L] ............................................. 2
EE 380 Computer Organization ..................................... 3
EE 461G Introduction to Electronics ............................. 3
MA 320 Introductory Probability ................................... 3

Second Semester
EE 468G Introduction to Electromagnetics ..................... 4
Elective EE Laboratory [L] ............................................. 2
Engineering/Science Elective [E] ................................. 3
Technical Elective [T] ................................................... 3
University Studies – Humanities or Cross-Cultural* ............. 3

Senior Year
First Semester
EE Technical Electives** ............................................ 6
Elective EE Laboratory [L] ............................................. 2
Math/Statistics Elective [M] ........................................... 3
Technical Elective [T] ................................................... 3
University Studies – Social Science* ......................... 3

Second Semester
EE 499 Electrical Engineering Design ......................... 3
EE Technical Electives** ............................................ 6
Supportive Elective*** ................................................ 6
Engineering/Science Elective [E] ................................. 3

** Supportive elective is to be chosen from any University courses, excluding more elementary versions of required courses, such as precalculus mathematics or PHY 211.[M]

*** EE Technical Electives: Courses recommended as electrical engineering technical electives are listed below (each course is 3 credit hours):
EE 511 Introduction to Communication Systems
EE 512 Digital Communication Systems
EE 517 Advanced Electromagnetics
EE 518 Electric Drives
EE 522 Antenna Design
EE 523 Microwave Circuit Design
EE 527 Electromagnetic Compatibility
EE 537 Electric Power Systems I
EE 538 Electric Power Systems II
EE 560 Semiconductor Device Design
EE 561 Electric and Magnetic Properties of Materials
EE 562 Analog Electronic Circuits
EE 564 Digital Electronic Circuits
EE 565 Circuit Design With Analog Integrated Circuits
EE 567 Introduction to Lasers and Masers
EE 568 Fiber Optics
EE 571 Feedback Control Design
EE 572 Digital Control of Dynamic Systems
EE 581 Advanced Logical Design
EE 582 Hardware Description Languages and Programmable Logic
EE 585 Fault Tolerant Computing
EE 587 Microcomputer Systems Design
EE 599 Topics in Electrical Engineering
(Subtitle required)

BACHELOR OF SCIENCE IN MATERIALS ENGINEERING

The materials engineer is responsible for the preparation, fabrication, selection, use and reuse of existing materials and for the development of new and improved materials. The professional in this field is often called on to consider metals, ceramics and polymers. The engineer considers chemical, electronic, magnetic, optical, and mechanical properties of materials.

The goals of the undergraduate program are as follows:

- Produce graduates with an understanding of materials, who can function independently as professionals in the practice of engineering or as successful members of related graduate and professional programs.
- Produce graduates who can use their materials educations to continue their careers with steady advancement and professional development.

Degree Requirements
Each student must complete the following:

Premajor Requirements
ENG 104 Writing: An Accelerated Foundational Course .......... 4
CHE 105 General College Chemistry I .......................... 3
CHE 107 General College Chemistry II ....................... 3
CHE 111 Laboratory to Accompany General Chemistry I ........... 1
CHE 113 Laboratory to Accompany General Chemistry II ............ 2
MA 113 Calculus I ......................................................... 4
MA 114 Calculus II ......................................................... 4
MA 213 Calculus III ....................................................... 4
MA 214 Calculus IV ....................................................... 4
PHY 231 General University Physics ................................ 4
PHY 232 General University Physics ................................ 4
PHY 241 General University Physics Laboratory ............... 1

Subtotal: Premajor Hours .............................................. 37

Major Requirements
MSE 101 Materials Engineering ...................................... 1
COM 181 Basic Public Speaking ..................................... 3
CS 221 First Course in Computer Science for Engineers .......... 2
CME 200 Process Principles ......................................... 3
MSE 201 Materials Science ............................................ 3
MSE 202 Materials Science Laboratory .......................... 1
CHE 236 Survey of Organic Chemistry ............................ 3
EM 211 Statics .............................................................. 3
MSE 301 Materials Science ............................................ 3
MSE 351 Material Thermodynamics .................................. 3
EM 302 Mechanics of Deformable Solids ......................... 3
EE 305 Electrical Circuits and Electronics ....................... 3
PHY 361 Principles of Modern Physics ............................ 3
STA 381 Introduction to Engineering Statistics .................. 3
MSE 401G Metal and Alloys ......................................... 3
MSE 402G Electronic Materials and Processing ................. 3
MSE 403G Ceramic Engineering and Processing ............... 3
MSE 404G Polymeric Materials .................................... 3
MSE 407 Materials Laboratory I .................................... 3
MSE 408 Materials Laboratory II .................................. 3
MSE 436 Material Failure Analysis .................................. 3
MSE 480 Materials Design ............................................ 3
MSE 535 Mechanical Properties of Materials ................... 3
MSE 538 Metals Processing ........................................... 3
MSE 585 Materials Characterization Techniques ............... 3

Subtotal: Major Hours ................................................ 70

Technical Electives
Choose 6 credit hours from the following:
MSE 395 Independent Work in Materials Engineering ........... 3
(Or any other approved technical course)
MSE 531 Powder Metallurgy ...................................... 3
MSE 550 Corrosion ................................................. 3
MSE 506 Mechanics of Composite Materials ................... 3
MSE/CME 554 Chemical and Physical Processing of Polymer Systems ............................................. 3
MSE 556 Introduction to Composite Materials ................... 3
MSE 568 Fiber Optics .................................................. 3
MSE 569 Electronic Packaging Systems and Manufacturing Processes ............................................. 3
MSE 599 Topics in Materials Science and Engineering (Subtitle required) ............................................. 3

Subtotal: Technical Electives ........................................... 6

Supportive Elective
The supportive elective can be any course that carries college credit and is not a more elementary version of a required course. For example, college algebra would not be satisfactory because it is more elementary than the required calculus courses. The student completing 3 co-op tours (EGR 399) may count the co-op experience toward the supportive elective.

Subtotal: Supportive Elective ....................................... 3

University Studies Requirements Hours
Social Science ............................................................ 6
Humanities* ............................................................... 6
Cross-Cultural ............................................................ 3
Electives ................................................................. 3
Subtotal: USP ......................................................... 18

*Some literature courses can be counted for the Second-Tier Writing Requirement and 3 hours of humanities.

TOTALHOURS: ......................................................... 134

Curriculum
Freshman Year
First Semester
MSE 101 Materials Engineering ...................................... 1
CHE 105 General College Chemistry I .......................... 3
CHE 111 Laboratory to Accompany General Chemistry I ........... 1
ENG 104 Writing: An Accelerated Foundational Course .......... 4
MA 113 Calculus I ......................................................... 4
MA 221 First Course in Computer Science for Engineers .......... 2

Second Semester
CHE 107 General College Chemistry II ....................... 3
CHE 113 Laboratory to Accompany General Chemistry II ............ 2
MA 114 Calculus II ......................................................... 4
MA 116 Calculus III ....................................................... 4
MA 215 Calculus IV ....................................................... 4
PHY 231 General University Physics ................................ 4
PHY 232 General University Physics ................................ 4
PHY 241 General University Physics Laboratory ............... 1

Subtotal: First Semester ................................................. 7
Sophomore Year

First Semester
- MSE 201 Materials Science ........................................ 3
- CHE 236 Survey of Organic Chemistry ......................... 3
- MA 213 Calculus III .................................................... 4
- PIIH 231 General University Physics ............................. 3
- PHY 241 General University Physics Laboratory .............. 1
- MSE 202 Materials Science Laboratory ......................... 1

Second Semester
- MSE 301 Materials Science II ..................................... 3
- MSE 351 Material Thermodynamics ............................... 3
- MA 214 Calculus IV .................................................... 4
- PHY 232 General University Physics ......................... 4
- EM 221 Statics ............................................................. 3

Junior Year

First Semester
- MSE 401G Metal and Alloys ....................................... 3
- MSE 404G Polymeric Materials ..................................... 3
- CME 200 Process Principles ....................................... 3
- EM 302 Mechanics of Deformable Solids ....................... 3
- University Studies* .................................................... 3

Second Semester
- MSE 403G Ceramic Engineering and Processing ............ 3
- MSE 402G Electronic Materials and Processing .............. 3
- PHY 361 Principles of Modern Physics ......................... 3
- STA 381 Introduction to Engineering Statistics ............... 3
- MSE 535 Mechanical Properties of Materials ............... 3
- MSE 407 Materials Laboratory I ................................. 3

Senior Year

First Semester
- MSE 585 Materials Characterization Techniques .......... 3
- MSE 436 Material Failure Analysis ............................... 3
- EE 305 Electrical Circuits and Electronics ................... 3
- MSE 408 Materials Laboratory II ................................. 3
- Technical Elective*** ................................................. 3
- ENG 2XX Writing Intensive Course or
  University Studies* .................................................... 3

Second Semester
- MSE 480 Materials Design .......................................... 3
- MSE 538 Metals Processing ......................................... 3
- Technical Elective*** ................................................. 3
- Supportive Elective** ................................................. 3
- University Studies* .................................................... 3
- University Studies* .................................................... 3

*To be selected from University Studies areas in Social Sciences, Humanities, Cross-Cultural and Electives in consultation with the academic advisor. A minimum of 18 credits in the humanities and social sciences are required.

**Supportive elective is any university course, excluding more elementary versions of required courses, such as precalculus mathematics or PHY 211.

***Choose from the list of Technical Electives above.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

The training of the mechanical engineer is the broadest among the several fields of engineering. The mechanical engineer uses the techniques of mathematics combined with a specialized knowledge of the thermal and energy sciences, solid and fluid mechanics, and the properties of materials. This information is supplemented by an understanding of manufacturing processes, the design and control of systems, and the economics of the technological community.

Our graduates will be able to apply knowledges of mathematics, science and mechanical engineering to the solution of problems, particularly in the areas of thermodynamics and energy systems; heat transfer; fluid mechanics; mechanical systems and controls; mechanical design; finite element methods and computer-aided graphics; manufacturing; instrumentation; and experimental method.

Consistent with the Vision and Mission statements of the University of Kentucky, the undergraduate programs in mechanical engineering strive to meet the following educational objectives:

1. Mechanical Engineering programs will prepare our students for successful practice or academic pursuits in mechanical engineering.

2. Our graduates will have the knowledge in analytical, computational, and experimental methods to begin engineering practice or continue their education. This will include the ability to design components and systems and to solve engineering problems using current analysis and computational methods.

3. Our graduates will have a broad education and communication skills needed for a variety of career options and an appreciation of the need for life-long learning.

4. Our graduates will have an understanding of the societal, environmental and ethical responsibilities of engineers.

Degree Requirements

Each student must complete the following:

University Studies Requirements Hours See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements. Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Math
- MA 113 Calculus I .................................................... 4

Inference –Logic
- MA 113 Calculus I .................................................... 4

Oral Communication
- COM 181 Basic Public Speaking ................................ 3

Natural Sciences
- CHE 105 General College Chemistry I ....................... 3
- CHE 107 General College Chemistry II ....................... 3

USP Electives
- Complete with Supportive Elective and Technical Elective ............................................. 6

Premajor Requirements Hours
- *ENG 104 Writing: An Accelerated Foundational Course .................................................. 4
- ENG 2XX Writing Intensive Course ......................... 3
- *CHE 105 General College Chemistry I ................. 3
- *CHE 107 General College Chemistry II ................. 3
- *MA 113 Calculus I .................................................... 4
- *MA 114 Calculus II ................................................... 4
- *MA 213 Calculus III .................................................. 4
- *MA 214 Calculus IV ................................................... 4
- *PHY 231 General University Physics ...................... 4
- *PHY 232 General University Physics ...................... 4
- *PHY 241 General University Physics Laboratory .......... 1
- *PHY 242 General University Physics Laboratory .......... 1

Subtotal: Premajor Hours: .......................... 38

Major Requirements Hours
- ME 101 Introduction to Mechanical Engineering .... 3
- *COM 181 Basic Public Speaking ..................... 3
- ME 151 Manufacturing Engineering .................... 3
- ME 205 Computer Aided Engineering Graphics .... 3
- ME 220 Engineering Thermodynamics I ............ 3
- CS 221 First Course in Computer Science for Engineers .......... 2
- EM 221 Statics ............................................................. 3
- EM 302 Mechanics of Deformable Solids ............... 3
- EM 313 Dynamics ....................................................... 3
- EE 305 Electrical Circuits and Electronics ............ 3
- ME 310 Engineering Experimentation I ............... 3
- ME 311 Engineering Experimentation II ............... 3
- ME 321 Engineering Thermodynamics II .............. 3
- ME 325 Elements of Heat Transfer ......................... 3
- ME 330 Fluid Mechanics ........................................... 3
- ME 340 Introduction to Mechanical Systems .......... 3
- ME 344 Mechanical Design ......................................... 3
- ME 411 ME Capstone Design I ................................. 3
- ME 412 ME Capstone Design II ............................... 3
- ME 440 Design of Control Systems ....................... 3
- ME 501 Mechanical Design with Finite Element Methods .......... 3

Subtotal: Major Hours .................................. 62

Technical Electives Hours
Choose one course from the following:
- MA 320 Introductory Probability and Statistics .......... 3
- MA 321 Introduction to Numerical Methods .......... 3
- MA 322 Matrix Algebra and Its Applications ............ 3
- MA 432G Methods of Applied Mathematics .......... 3
- MA 433G Introduction to Complex Functions .......... 3
- MA 481G Differential Equations ......................... 3
- STA 381 Introduction to Engineering Statistics .......... 3

Subtotal: Technical Electives: .................... 9

Mathematics Elective Hours

Choose one course from the following:
- MA 320 Introductory Probability and Statistics .......... 3
- MA 321 Introduction to Numerical Methods .......... 3
- MA 322 Matrix Algebra and Its Applications ............ 3
- MA 432G Methods of Applied Mathematics .......... 3
- MA 433G Introduction to Complex Functions .......... 3
- MA 481G Differential Equations ......................... 3
- STA 381 Introduction to Engineering Statistics .......... 3

Subtotal: Mathematics Elective: .................. 3
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<tr>
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<tr>
<td>Finite Element Methods</td>
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<td>ME 440 Design of Control Systems</td>
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<td>ME 311 Engineering Experimentation II</td>
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<td>ME 325 Elements of Heat Transfer</td>
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<tr>
<td>ME 344 Mechanical Design</td>
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<td>ME 310 Engineering Experimentation I</td>
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<tr>
<td>EE 305 Electrical Circuits and Electronics</td>
<td>3</td>
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<tr>
<td>EM 302 Mechanics of Deformable Solids</td>
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<td>ME 321 Engineering Thermodynamics II</td>
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<tr>
<td>First Semester</td>
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<tr>
<td>University Studies*</td>
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</tr>
<tr>
<td>EM 221 Statics</td>
<td>3</td>
</tr>
<tr>
<td>CS 221 First Course in Computer Science</td>
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<tr>
<td>ME 205 Computer Aided Engineering Graphics</td>
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<tr>
<td>Second Semester</td>
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<tr>
<td>ME 220 Engineering Thermodynamics I</td>
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<tr>
<td>PHY 232 General University Physics Laboratory</td>
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<tr>
<td>PHY 241 General University Physics Laboratory</td>
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</tr>
<tr>
<td>MA 213 Calculus III</td>
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<tr>
<td>MA 214 Calculus IV</td>
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<tr>
<td>EM 221 Statics</td>
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<td>ME 321 Engineering Thermodynamics II</td>
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<tr>
<td>ME 330 Fluid Mechanics</td>
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<tr>
<td>EM 302 Mechanics of Deformable Solids</td>
<td>3</td>
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<td>EM 313 Dynamics</td>
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<tr>
<td>EE 305 Electrical Circuits and Electronics</td>
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</tr>
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<td>University Studies*</td>
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<tr>
<td>Second Semester</td>
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<tr>
<td>ME 310 Engineering Experimentation I</td>
<td>3</td>
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<tr>
<td>ME 344 Mechanical Design</td>
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<td>ME 340 Introduction to Mechanical Systems</td>
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</tr>
<tr>
<td>Mathematics Elective***</td>
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</tr>
<tr>
<td>Senior Year</td>
<td></td>
</tr>
<tr>
<td>ME 411 ME Capstone Design I</td>
<td>3</td>
</tr>
<tr>
<td>ME 311 Engineering Experimentation II</td>
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<td>ME 440 Design of Control Systems</td>
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<tr>
<td>ME 501 Mechanical Design with Finite Element Methods</td>
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<td>Technical Elective†</td>
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<td>Second Semester</td>
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<td>ME 412 ME Capstone Design II</td>
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<td>Supportive Elective†</td>
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<tr>
<td>University Studies*</td>
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</table>
The joint mechanical engineering program is one of only four such joint-degree programs in Kentucky; the others include a joint-degree program between WKU and UK in civil engineering, between WKU and the University of Louisville (UL) in electrical engineering, and between Murray State University and UL in electrical and telecommunications engineering.

The WKU/UK joint programs emphasize a project-oriented educational approach. Courses are provided by both WKU and UK faculty. Students are required to complete a minimum of 16 credit hours of engineering course work taught by UK engineering faculty. At present, the UK contribution is provided by distance delivery via interactive television. The curriculum of the joint mechanical engineering program is under the direction of a joint program faculty, with equal representation from each participating institution. The curriculum for entering students requires 139.5 credit hours, with the General Studies component based on the requirements of WKU. Students who complete the program will receive a B.S. degree conferred jointly by WKU and UK. Under the terms of the agreements between the degree-awarding institutions, WKU provides basic administrative support for students in the joint-degree program, including admission services, registration, and student financial aid. In addition, academic advising, laboratory and equipment support, and library and media resources are supplied by WKU.

The mechanical engineering curriculum approved within UK is listed below. The joint program faculty are responsible for on-going review of the curricular requirements.

Curriculum

Freshman Year

**Fall Semester**  
ENG 100 Freshman English ............................... 3  
MATH 126 Calculus I ........................................ 4.5  
UIC101/ME 101 ME Freshman Experience ............. 3  
ME 240/241 Materials/Methods Mfg. .................. 4  
CHEM 120/121E Chemistry for Engineers .......... 4  
Total .......................................................... 18.5

**Spring Semester**  
CS 245 Intro to Comp Prog Lang ....................... 1.5  
MATH 227 Calculus II .................................... 4.5  
SCOM 161 Business Speaking ........................... 3  
PHYS 250/251 Physics I & Lab .......................... 4  
HIST 119/120 Western Civilization .................. 3  
Category F .................................................. 2  
Total .......................................................... 18

Sophomore Year

**Fall Semester**  
MATH 327 Multivariable Calculus ...................... 4  
EM 221 Statics ............................................. 3  
EE 250 EE Fundamentals .................................. 3  
PHYS 260/261 Physics II & Lab ........................ 4  
AMS 205 CADD for Manufacturing .................. 3  
Total .......................................................... 18

**Spring Semester**  
ME 200 Sophomore Design ................................ 2  
MATH 331 Differential Equations ...................... 3  
EM 313 Dynamics .......................................... 3  
EM 302 Mechanics of Deformable Solids ............ 3  
ME 331 Mechanics of Deformable Solids Lab ........ 1  
EE 285 Intro to Ind. Automation ....................... 2  
Category B .................................................. 3  
Total .......................................................... 17

Junior Year

**Fall Semester**  
STAT 301 Applied Statistics ............................ 3  
ME 229 Eng. Thermodynamics I ....................... 3  
ME 344 Mechanical Design .............................. 3  
Category B Elective ....................................... 3  
ENG 200 Intro. To Literature ............................ 3  
Total .......................................................... 18

**Spring Semester**  
ME 300 Junior Design .................................... 2  
ME 310 Eng. Instru. And Exper. ........................ 3  
ME 321 Eng. Thermodynamics II ....................... 3  
ME Tech. Elective I ........................................ 3  
ME 330 Fluid Mechanics .................................. 3  
Economics ................................................... 3  
Total .......................................................... 18

Senior Year

**Fall Semester**  
ME 352 Heat Transfer .................................... 3  
ME 410/411 ME Vib/Controls & Lab .................... 4  
ME 400 Mechanical Eng Design ....................... 2  
ME 420 Senior ME Lab I ................................ 3  
ME Tech. Elective II ....................................... 3  
ENG 300 Junior English .................................. 3  
Total .......................................................... 16

**Spring Semester**  
ME 430 Senior ME Lab II ................................. 3  
ME 412 ME Senior Project ............................... 3  
ME Tech. Elective III ....................................... 3  
Category C Elective ....................................... 3  
Category E Elective ....................................... 3  
Total .......................................................... 15

**TOTAL HOURS** ........................................... 139.5

(1) The following UK courses are offered at WKU through the University of Kentucky: EM 221, EM 313, EM 220, EM 321, EM 344, and at least one Technical Elective (18-21 hours of UK courses).

(2) The following additional courses are based on UK syllabus, but taught by WKU: EM 302, ME 325, 330.

(3) Technical Electives: Two lists of ME Technical Electives are available, one for WKU courses and one for UK courses. Students must select one from each list, with the remaining ME Technical Elective selected from either list.

(4) Check the WKU undergraduate catalog for category B, C, E, and F above.

Category B electives – Humanities
Category C electives – Social and Behavioral Sciences
Category E electives – World Cultures and American Cultural Diversity
Category F electives – Health and Wellness

BACHELOR OF SCIENCE IN MINING ENGINEERING

Mining engineering requires the broadest knowledge of sciences and other fields of engineering in its practice after graduation. The curriculum below prepares the student for a career in the field of mining.

The objectives of the undergraduate program in mining engineering take into consideration the intellectual and personal development of students so that after graduation they will be able to:

- Advance in their careers, adapting to new situations and emerging problems, through the application of general purpose engineering skills and the core technical disciplines, analytical procedures, and design practices of the mining engineering profession.
- Function ethically in a variety of professional roles such as mine planner, designer, production manager, mineral processing engineer, consultant, technical support representative and regulatory specialist with emphasis on the mineral industries of Kentucky and the surrounding region.
- Pursue advanced degrees in mineral-related fields and also those fields that support the mineral industries such as business and law.
- Utilize professional skills such as effective communication, teamwork, and leadership.
- Demonstrate an understanding of the critical role mining engineers play in society with respect to health, safety, and the environment in tangible ways such as achieving professional licensure.

Visit our Web page at: www.engr.uky.edu/mng.

Degree Requirements

Each student must complete the following:

**University Studies Requirements**  
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

**Math**
MA 113 Calculus I ........................................... 4

**Inference – Logic**
MA 113 Calculus I ........................................... 4

**Written Communication**
ENG 104 Writing: An Accelerated Foundational Course ............... 4

**Oral Communication**
COM 199 Presentational Communication Skills ................ 1

plus MNG 371 and MNG 592
**Curriculum**

**Freshman Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CS 221 First Course in Computer</td>
<td>3</td>
</tr>
<tr>
<td>Science for Engineers</td>
<td>2</td>
</tr>
<tr>
<td>ENG 104 Writing: An Accelerated Foundation Course</td>
<td>4</td>
</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MNG 101 Introduction to Mining Engineering</td>
<td>1</td>
</tr>
<tr>
<td>University Studies*</td>
<td>3</td>
</tr>
</tbody>
</table>

**Second Semester**

| CHE 107 General College Chemistry II | 3 |
| MA 114 Calculus II | 4 |
| MNG 264 Mining Methods | 3 |
| PHY 231 General University Physics | 4 |
| PHY 241 General University Physics Laboratory | 1 |

**Sophomore Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM 221 Statics</td>
<td>3</td>
</tr>
<tr>
<td>GLY 220 Principles of Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>MA 214 Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>MNG 301 Minerals Processing</td>
<td>2</td>
</tr>
<tr>
<td>MNG 303 Deformable Solids Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MNG 335 Introduction to Mine Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MNG 331 Explosives and Blasting</td>
<td>2</td>
</tr>
<tr>
<td>PHY 242 General University Physics Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM 302 Mechanics of Deformable Solids</td>
<td>3</td>
</tr>
<tr>
<td>MA 214 Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>ME 220 Engineering Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>COM 199 Presentation Communication Skills</td>
<td>1</td>
</tr>
<tr>
<td>MNG 291 Mineral Reserve Modeling</td>
<td>2</td>
</tr>
<tr>
<td>MNG 303 Deformable Solids Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MNG 332 Mine Plant Machinery</td>
<td>3</td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNG 101 Introduction to Mining Engineering</td>
<td>1</td>
</tr>
<tr>
<td>MNG 211 Mine Surveying</td>
<td>2</td>
</tr>
<tr>
<td>MNG 291 Mineral Reserve Modeling</td>
<td>2</td>
</tr>
<tr>
<td>MNG 301 Minerals Processing</td>
<td>3</td>
</tr>
<tr>
<td>MNG 302 Minerals Processing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MNG 303 Deformable Solids Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MNG 331 Explosives and Blasting</td>
<td>2</td>
</tr>
<tr>
<td>MNG 332 Mine Plant Machinery</td>
<td>3</td>
</tr>
<tr>
<td>MNG 335 Introduction to Mine Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MNG 463 Surface Mine Design and Environmental Issues</td>
<td>3</td>
</tr>
<tr>
<td>Minerals Processing Technical Elective***</td>
<td>3</td>
</tr>
<tr>
<td>University Studies/Graduation Writing Requirement*</td>
<td>3</td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNG 341 Mine Ventilation</td>
<td>3</td>
</tr>
<tr>
<td>MNG 431 Mines Systems Engineering and Valuation</td>
<td>4</td>
</tr>
<tr>
<td>MNG 463 Surface Mine Design and Environmental Issues</td>
<td>3</td>
</tr>
<tr>
<td>MNG 551 Rock Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>MNG 591 Mine Design Project I</td>
<td>1</td>
</tr>
<tr>
<td>MNG 592 Mine Design Project II</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MNG 341 Mine Ventilation</td>
<td>3</td>
</tr>
<tr>
<td>MNG 431 Mines Systems Engineering and Valuation</td>
<td>4</td>
</tr>
<tr>
<td>MNG 551 Rock Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>MNG 591 Mine Design Project I</td>
<td>1</td>
</tr>
<tr>
<td>University Studies*</td>
<td>3</td>
</tr>
</tbody>
</table>

**Technical Electives**: Of the two technical electives in the undergraduate program, students are required to select at least one from departmental courses. The remaining course, chosen with the approval of the student’s advisor, can be used to fulfill specific educational goals.

**Technical Electives**: The course selected to fulfill the Graduation Writing Requirement can also be used to satisfy the Cross-Cultural requirement or 3 credits of the Humanities requirement. Selection of ENG 264 will satisfy the Graduation Writing Requirement and the Cross-Cultural requirement. Alternatively, selection of one course from among ENG 230, ENG 231, ENG 232, ENG 233, ENG 234, ENG 261, ENG 262, ENG 270, or ENG 271 will satisfy the Graduation Writing requirement and 3 credits of the Humanities requirement. Please consult the Schedule of Classes for updates to the list of courses.

**Supportive Electives**: The select course from list of Graduation Writing Requirement.*

**Subtotal: Major Hours** = 72

**Subtotal: Electives** = 12

**TOTAL HOURS**: 132
The College of Fine Arts was established in September 1976 and includes the Department of Art, the Department of Theatre, the School of Music, and the Otis A. Singletary Center for the Arts.

Accreditation

School of Music

The School of Music is accredited by the National Association of Schools of Music (NASM).

Undergraduate Programs in Fine Arts

The University of Kentucky grants the following degrees in the College of Fine Arts:

- Bachelor of Arts
- Bachelor of Fine Arts
- Bachelor of Music
- Bachelor of Music in Music Education

Students pursuing the Bachelor of Arts may select from these majors: art education, art history, art studio, music, theatre, or arts administration.

Students pursuing the Bachelor of Fine Arts select art studio.

Students pursuing a music degree select the Bachelor of Music with a major in music performance or the Bachelor of Music in Music Education.

The college also offers several graduate programs, which are described in The Graduate School Bulletin.

Departmental Minors

Students from any college may choose to have an interdisciplinary minor in the arts, or to minor in art history, art studio, music, theatre, or arts administration. Requirements for these minors may be found under the departmental listings.

Financial Aid

Department of Art

The University of Kentucky Department of Art and the Office of Minority Affairs will award the Isaac Hathaway Scholarship in the Visual Arts to an incoming African-American freshman student majoring in art studio, art education, art history, or arts administration. For more information on this four-year scholarship and other smaller departmental scholarships, contact the Art Department, 207 Fine Arts Building, University of Kentucky, Lexington, KY 40506-0022. Or call (859) 257-8151.

School of Music

The School of Music has a number of performance based grants-in-aid and scholarships. Talented singers and instrumentalists should contact the School of Music, Office of Outreach and Recruiting for further information. Call (859) 257-1808 or write c/o 105 Fine Arts Building, University of Kentucky, Lexington, KY 40506-0022.

Department of Theatre

A modest number of scholarships are available from the Department of Theatre. For further information, call (859) 257-3297. Or visit the Web at: www.uky.edu/FineArts/Theatre/.

Arts Administration Program

Scholarships are available to students currently enrolled in the Arts Administration program. Contact the Director of the Arts Administration Program for application information, or call (859) 257-1709.

Requirements for the Bachelor of Arts Degree

Requirements for the Bachelor of Arts Degree

Students who wish to pursue the Bachelor of Arts degree within the College of Fine Arts must fulfill the following requirements:

University Requirements

All students must fulfill University Studies requirements. Students should work closely with advisors in selecting courses in each area.

College Requirements

1. Students must complete at least 120 hours of course work or its equivalent with a grade-point average of at least 2.0. Of these hours, 39 must be at or above the 300 level.

2. In addition to the Basic Skills requirement for foreign language in University Studies, students in music and students in art history (major or minor) must 1) satisfy a four-semester sequence in one language by passing the fourth semester or by demonstrating equivalent competence, or 2) pass the third semester course in one language and the second semester course in a second language to demonstrate equivalent competence.

3. Students must complete a major program.

Requirements for a Major

The major – selected from art education, art history, art studio, music, theatre, or arts administration – must include at least 45 credit hours. Among these 45 hours students must include the following:

1. At least six hours of premajor work.

2. At least 18 hours at or above the 200 level in a departmental or school program.

3. At least 9 hours in work related to but outside the major department. Courses which are used to fulfill University Studies requirements may also be used to fulfill this related work, when appropriate.

In addition, students must complete the departmental or school requirements that have been established. Specific major requirements are outlined in detail under the appropriate department and school sections which follow.

Requirements for the Bachelor of Fine Arts Degree

The University and College requirements for the B.F.A. are the same as the B.A. requirements outlined above.

“...The knowledge and educational experiences that I gained from my college career were expected. But what I did not anticipate was how important being part of a “family” of supportive, challenging professors and insightful, encouraging peers would be. With the help of those around me and by playing an active role myself, I am leaving with much more than my diploma. I encourage everyone to do the same.”

– Emily Shrider
Bachelor of Arts
Art Studio and Arts Administration
Class of 2007

Robert Shay, M.F.A., is Dean of the College of Fine Arts.
Requirements for the Bachelor of Music in Music Performance and in Music Education

These requirements are outlined with other program requirements under the School of Music.

Advising

Department of Art

Academic advising is provided by selected faculty in the area of the student’s major (art education, art history, or art studio). Upon declaring a major, the student should contact the Department of Art and request an advisor.

School of Music

The School of Music has a personalized, faculty-based advising system. Each music major is assigned a faculty advisor who is particularly familiar with the student’s undergraduate music degree. That faculty member serves as advisor/counselor through the student’s final semester and graduation.

Department of Theatre

Students interested in applying to the B.F.A. in Acting program must successfully complete an acting audition. Contact the coordinator of the B.F.A. Acting program for audition information. Students must successfully complete an annual audition and meet all B.F.A. requirements to retain B.F.A. status. Students interested in applying to the B.F.A. in Design and Technology program must arrange for an interview. Contact the coordinator of the B.F.A. Design and Technology program for further information. Students must successfully complete their annual portfolio review and meet all B.F.A. requirements to retain B.F.A. status.

All B.F.A. students are encouraged to participate in the Kentucky Theatre Association, the Southeast Theatre Conference, and the appropriate acting or design competitions sponsored by the American College Theatre Festival.

All theatre students in the B.A. degree program must meet with the Director of Undergraduate Studies for advising and scheduling information.

Arts Administration Program

All students are assigned an academic advisor when they enter the program. Advisors not only help students choose courses to complete their degree requirements, but also assist students in finding internships.

DEPARTMENT OF ART

Requirements for the B.A. with a major in ART EDUCATION

Art Education majors who wish to be recommended for a state teaching certificate must complete the requirements for the major in Art Education and the requirements for admission, retention and completion of a UK educator preparation program (see page 166 of this Bulletin).

The Art Education Program Faculty, the College of Education Director of Academic Services and Teacher Certification, the University Registrar, and in the case of graduate level programs, the UK Graduate School Dean, are charged with the responsibility of monitoring a student’s progress through educator preparation programs. The Director of Academic Services and Teacher Certification recommends to the Kentucky Education Professional Standards Board (EPSB) that a successful candidate be awarded a state candidate license (certificate).

Continuous Assessment in the Art Education Program

A student’s progress through the art education programs is continuously monitored, assessed, and reviewed. In addition to typical evaluation processes that occur as part of their course work and field placements, students will be assessed a minimum of three times.

The three assessments will occur upon entry into the Art Education Program, at a midpoint in the program (no later than the semester prior to student teaching), and upon completion of the program, following student teaching. Assessments will include, but are not limited to: (a) appropriate scores on approved standardized tests, (b) review of grades via inspection of transcript, (c) assessment of standards in the required standards sets; all assessed during reviews of portfolio documents or artifacts, interviews with program faculty, when taking UK courses, and during field experiences, and (d) continued adherence to the KY Professional Code of Ethics. At all three assessment points, the program faculty will document the student’s progress toward, or attainment of, all standards in each of the following required standards sets.

College Requirements

Music, Theatre and/or Arts Administration......... 6
plus 39 hours at 300-level or above

Subtotal: College Required Hours........... 6

University Studies Requirements

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Social Sciences*

Two courses in separate disciplines

as specified in USP................................. 6

Cross Cultural**

A-H 307 Ancient Near Eastern and Egyptian Art ....... 3
A-H 308 Studies in African Art (Subtitle required) ...... 3
*Students must complete six hours of Social Sciences in addition to PSY 100.
**Recommended.
All students applying for admission to the Art Teacher Education Program are required to submit samples of their writing to the Art Education Program Faculty. Honors Program students should refer to the University Studies Program, Humanities, Option 2 for alternatives for fulfilling the University writing requirement.

Some students might be able to satisfy the University Studies requirement in as few as 37 hours. However, if total university studies hours are less than 45, one or more courses will be needed to bring the total up to 45 hours.

Professional and Art Education

Requirements

Hours

COM 181 Basic Public Speaking ................................ 3
PSY 100 Introduction to Psychology ...................... 4
EDP 202 Human Development and Learning ............ 3
EDP 203 Teaching Exceptional Learners in Regular Classrooms ..................................... 3
EPE 301 Education in American Culture ............... 3
EDC 362 Field Experiences in Secondary Education ........................................ 1-3
EDC 317 Introduction to Instructional Media .......... 1
EDL 401 The Professional Teacher:
	Legal Perspectives ................................. 1
	EDC 342 Student Teaching in Art ................... 12
A-E 576 Art in Middle Schools ........................ 2
A-E 577 Art in Secondary Schools ..................... 2
A-E 578 Art in Elementary Schools .................... 2
A-E 579 Arts and Humanities in Art Education .... 2
*Students must complete PSY 100 in addition to six hours of USP Social Sciences.

Subtotal: Professional and Art Education Hours............. 39-41

Area of Concentration in Art

Area A. Art History and Appreciation

1. Lower Division (select two of the following courses: ART 100, A-H 105, A-H 106) ................. 6
2. Upper Division (two 300-level or above A-H courses) ................................................. 6
3. ART 191 Art Professions ............................ 4

Subtotal: Area A Hours.......................... 16

Area B. Art Studio

1. Lower Division (all of the following courses):  A-S 102 Visual Exploration I .................. 3
A-S 103 Visual Exploration II ..................... 4
A-S 200 Studio I .................................. 3
A-S 215 Studio II .................................. 3
A-S 255 Studio III .................................. 3
2. Upper Division (all of the following courses): A-S 310 Painting I .......................... 3
A-S 320 Printmaking I or A-S 321 Printmaking II .................. 3
A-S 370 Ceramics I .................................. 3
3. Studio Electives (Need not be upper division. Regular and/or independent course work may be selected from one or from several studio areas.) ......................... 7

Subtotal: Area B Hours .......................... 32

Area of Concentration Hours .......................... 48
Some students may be able to satisfy University Studies requirements, Professional and Art Education requirements, and Area of Concentration requirements with less than the minimum hours required for graduation from the college in which they are enrolled. In that event, they must take additional hours of elected course work to meet their college’s requirement. Minimum hours required for graduation from the College of Fine Arts: 120.

TOTAL HOURS: 120

State Mandated Testing and the Kentucky Teacher Internship

Successful completion of the examinations required by the Kentucky Education Professional Standards Board is a precondition for the granting of a teaching license (certificate). See www.kypbl.net for the current list of PRAXIS examination requirements for P-12 Art certification.

Upon being recommended for a Kentucky Teaching License (certificate), a candidate will be issued a Kentucky Letter of Eligibility for the Kentucky Teacher Internship Program. Upon employment in a Kentucky P-12 school, the candidate will receive a one-year license to practice as a fully qualified intern Art teacher. After successfully completing the internship year, the candidate will be eligible for a regular Kentucky Professional Teaching License (certificate).

Information concerning licensure in other states is available from the office of Academic Services and Teacher Certification in the College of Education.

Requirements for the B.A. with a major in ART HISTORY

The B.A. offers art history majors courses in non-Western, the Western tradition from ancient through contemporary art, methodology and theory, African art, and advanced courses with more focused topics that present differing approaches to the discipline. A major in art history focuses on the development of the visual arts within a broad liberal arts tradition. The program equips majors with skills in visual analysis, art historical research, problem solving, critical thinking, and writing, as well as with direct experience with the art object.

Graduates with a B.A. in art history will have received a solid liberal arts education with a strong emphasis on writing, the acquisition of at least one foreign language, and critical thinking, useful for virtually any career path. The degree helps prepare majors for arts-related careers in gallery and museum work or arts organizations at the community or state level. Majors may choose to pursue further post-graduate studies, leading to careers in research and/or field work, teaching, arts administration, and curatorial work in a museum.

The major in art history must include the following:

College Requirements

Music, Theatre and/or Arts Administration 6

plus 39 hours at 300-level or above

Subtotal: College Required Hours 6

University Studies Requirements Hours

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Humanities

A-H 105 Ancient Through Medieval Art 3
A-H 106 Renaissance Through Modern Art 3

Premajor Requirements Hours

Select two of the following A-H courses:
A-H 104 Introduction to African Art 3
A-H 105 Ancient Through Medieval Art 3
A-H 106 Renaissance Through Modern Art 3

plus
A-S 102 Visual Exploration I 3
or
A-S 103 Visual Exploration II 4

ART 191 Art Professions 1

Subtotal: Premajor Hours 10-11

Major Requirements

Performance Review

When majors have completed nine hours of art history at the 300 level or above, their performance is reviewed by the art history faculty for purposes of undergraduate and career advising. Students with a grade-point average below 2.5 in the major will confer with their advisor and together develop a strategy for improving and completing successfully their degree work.

Foreign Language

To satisfy the requirement students must: 1) satisfy a four-semester sequence in one language pertinent to primary or secondary sources for art historical scholarship (German or French recommended) by passing the fourth semester, or 2) pass the third semester course in one language and the second semester course in a second language, or 3) demonstrate equivalent competence.

Subtotal: Foreign Language 12-19

Art History

Twenty-four hours of art history are required beyond the premajor requirements. Of these, the following are specified:

At least one course from four of the five following groups 12

The four courses from these groups are designed to introduce students to major developments in the history of art. Students will develop skills in art historical analysis, research methods, writing, and problem solving.

Non-Western Art

A-H 307 Ancient Near Eastern and Egyptian Art 3
A-H 308 Studies in African Art (Subtitle required) 3

Ancient and Medieval Art

A-H 312 Studies in Greek Art (Subtitle required) 3
A-H 313 Studies in Roman Art (Subtitle required) 3
A-H 323 Studies in Medieval Art (Subtitle required) 3

Renaissance and Early Modern Art

A-H 334 Studies in Renaissance Art (Subtitle required) 3
A-H 335 Studies in Early Modern Art, 1500-1700 (Subtitle required) 3

18th and 19th Century Art

A-H 339 Studies in Art 1700-1840 (Subtitle required) 3
A-H 340 Studies in Art 1840-1914 (Subtitle required) 3
A-H 342 Studies in American Art (Subtitle required) 3

Modern Art

A-H 341 Studies in 20th Century Art (Subtitle required) 3
A-H 342 Studies in American Art (Subtitle required) 3
A-H 343 History of Photography 3
A-H 350 Contemporary Art 3

*Depending on subtitle, and as indicated on the syllabus, this course may satisfy this area requirement.

Plus at least one of the following:

These courses are designed to provide students with direct experience with the art object through either a museum practicum or organized course.
A-H 399 Experiential Education in Art History 3
A-H 501 Museum Studies I: Introduction 3
A-H 502 Museum Studies II: Internship 3
A-H 503 Art History Through the Art Object (Subtitle required) 3

Plus at least two of the following seminar areas:

These courses provide students with differing perspectives and approaches to the study of the visual arts. Courses may explore interdisciplinary aspects of art historical study, concentrate on an in-depth study of a specialized topic or period, or provide other frameworks beyond the traditional canon. To fulfill the requirement, students must select two different seminar numbers, not the same number with different subtitles.
A-H 525 Studies in Genres and Media (Subtitle required) 3
A-H 526 Art and the Artist in Society (Subtitle required) 3
A-H 527 Art Within Its Interdisciplinary Framework (Subtitle required) 3
A-H 528 Topical Seminar in Art History (Subtitle required) 3

Plus a capstone course necessary for the successful completion of the major:
A-H 555 Methods in Art History 3

The art history program also offers a topical course offered on a variety of subjects:
A-H 415G Topical Studies in Art History (Subtitle required) 3

Subtotal: Major Hours 24

Electives

Successful completion of nine hours in work related to, but outside, the Art Department. With the approval of an advisor, students are encouraged to select courses in aesthetics (PHI 592), anthropology, architectural history, art studio, arts administration, art professions, classics, history, history of film, history of interior design, history of theatre, literature, music, philosophy, and most particularly foreign language – especially German, French, or other languages relevant to special program or regional studies. In addition, students must choose six hours of free electives.

Subtotal: Electives 15

TOTAL HOURS: 120

Minor in Art History

Students from any college may choose to minor in art history. This minor requires at least 18 hours of course work, plus satisfaction of a language requirement.
1. A-H 105 Ancient Through Medieval Art 3
2. At least nine hours of work in art history at the 300 level or above
3. At least one course in art studio
4. Students in art history must 1) satisfy a four-semester sequence in one language by passing the fourth semester or by demonstrating equivalent competence, or 2) pass the third semester course in one language and the second semester course in a second language or demonstrate equivalent competence. (French and/or German recommended.)

**Requirements for the B.A. with a major in ART STUDIO**

This degree is available to students wishing to focus on a single medium from the following: ceramics, digital media, drawing, fiber, painting, photography, printmaking, and sculpture.

The major in art studio must include the following:

**College Requirements**
Music, Theatre and/or Arts Administration .......................... 6
 plus 39 hours at 300-level or above

Subtotal: College Required Hours ......... 6

**University Studies Requirements**
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

| Humanities | A-H 105 Ancient Through Medieval Art .................. 3 |
| A-H 106 Renaissance Through Modern Art .................. 3 |

**Premajor Requirements**
1. ART 191 Art Professions (two credit hours required)
2. Choose two of the following:
   A-H 104 Introduction to African Art .................. 3
   A-H 105 Ancient Through Medieval Art .................. 3
   A-H 106 Renaissance Through Modern Art .................. 3
3. A-S 102 Visual Exploration I .............................. 3
4. A-S 200 Studio I .................................................. 1
5. A-S 255 Studio III ............................................... 3

Subtotal: Premajor Hours ............... 24

**Major Requirements**
1. ART 191 Art Professions (four credit hours required)
2. Thirty-six credit hours of studio courses at or above the 300 level, according to the student’s committee-approved plan of study
3. Nine credit hours of art history at the 300 level or above
4. A-S 490 Senior Seminar (taken during the final semester of study)
5. Writing of a one-person senior exhibition for final approval by a studio faculty review committee.
6. At least nine hours in work related to but outside the major department.

Subtotal: Major Hours ..................... 42

**Electives**
Students must complete 6 hours of free electives.

Subtotal: Electives .......................... 6

**TOTAL HOURS:** .......................... 120

---

### Minor in Art Studio

Students from any college may choose to minor in art studio. The minor requirements are as follows:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minor in Art Studio</td>
<td>ART 191 Art Professions</td>
</tr>
<tr>
<td></td>
<td>A-S 102 Visual Exploration I</td>
</tr>
<tr>
<td></td>
<td>A-S 103 Visual Exploration II</td>
</tr>
<tr>
<td></td>
<td>A-S 200 Studio I</td>
</tr>
<tr>
<td></td>
<td>A-S 215 Studio II</td>
</tr>
<tr>
<td></td>
<td>A-S 255 Studio III</td>
</tr>
<tr>
<td></td>
<td>At least nine hours in studio at the 300 level or above</td>
</tr>
<tr>
<td></td>
<td>One course chosen from the following:</td>
</tr>
<tr>
<td></td>
<td>A-H 105 Ancient Through Medieval Art</td>
</tr>
<tr>
<td></td>
<td>A-H 106 Renaissance Through Modern Art</td>
</tr>
</tbody>
</table>

**SCHOOL OF MUSIC**

**Requirements for the B.A. with a major in MUSIC**

Admission to the B.A. program in music is granted only after the successful completion of an audition in the student’s performance area.

The major in music must include the following:

**College Requirements**
Art, Theatre and/or Arts Administration .................. 6
 plus 39 hours at 300-level or above

Subtotal: College Required Hours ......... 6

**University Studies Requirements**
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.

**Lower Division Major Requirements**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Music History: MUS 203</td>
<td>3</td>
</tr>
<tr>
<td>3. Major musical instrument or voice performance course of two hours each semester</td>
<td>8</td>
</tr>
<tr>
<td>4. Ensemble</td>
<td>4</td>
</tr>
<tr>
<td>5. All music majors must pass a piano proficiency examination and should schedule, in consultation with their advisor, a suitable course each semester until this requirement is completed. Students with little or no prior piano study should normally expect to complete the piano proficiency examination by the end of the four semesters of study</td>
<td>4 or as needed</td>
</tr>
<tr>
<td>6. MUS 001 Recital Attendance (four courses – zero credit – completed satisfactorily)</td>
<td>0</td>
</tr>
</tbody>
</table>

Subtotal: Lower Division Hours ......... 31-35

**Foreign Language**
To satisfy the requirement students must: 1) satisfy a four-semester sequence in one language by passing the fourth semester, or 2) pass the third semester course in one language and the second semester course in a second language, or 3) demonstrate equivalent competence.

Subtotal: Foreign Language ............... 12-19
### Upper Division Major Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Continuation of major musical instrument or voice performance courses above the sophomore level ...</td>
<td>4</td>
</tr>
<tr>
<td>2. MUS 372 Musical Analysis ..................................................................</td>
<td>2</td>
</tr>
<tr>
<td>3. MUS 302 and 303 ..............................................................................</td>
<td>6</td>
</tr>
<tr>
<td>5. Ensemble .........................................................................................</td>
<td>2</td>
</tr>
<tr>
<td>6. Music courses chosen from upper division courses appropriate to the areas of music history, theory, composition, and literature ........................................</td>
<td>10</td>
</tr>
<tr>
<td>7. Electives: To include 12 hours in courses related to the major but outside the School of Music. The student’s advisor must approve choice of this related work. Courses used to fulfill University Studies may be used to fulfill this related work, when appropriate.</td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal: Upper Division Hours</strong> ..................................................</td>
<td><strong>38</strong></td>
</tr>
<tr>
<td><strong>TOTAL HOURS:</strong> ..................................................................................</td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

### Requirements for the Bachelor of Music in Music Performance

Admission to the Bachelor of Music program in music performance is granted only after the successful completion of an audition in the student’s performance area.

To earn a Bachelor of Music degree in music performance, a student must complete 120 credit hours and have at least a 2.0 grade-point standing. At the conclusion of the sophomore year and before continuing in music performance at the upper division level, each student must perform before the music performance faculty for approval. Each student must also present a full recital during the senior year.

Students in music performance must complete the following:

#### University Studies Requirements

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.

#### Major Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Music Theory</strong></td>
<td></td>
</tr>
<tr>
<td>MUS 170, 171, 172, 173, 270, 271, 272, 273 .......................................</td>
<td>16</td>
</tr>
<tr>
<td><strong>Major Instrument Study</strong></td>
<td></td>
</tr>
<tr>
<td>Choose option from Instrument, Piano, Organ or Voice (see below) .............</td>
<td>24</td>
</tr>
<tr>
<td><strong>Recital Attendance</strong></td>
<td></td>
</tr>
<tr>
<td>MUS 001 Recital Attendance (four courses – zero credit – completed satisfactorily)</td>
<td>0</td>
</tr>
<tr>
<td><strong>Music History</strong></td>
<td></td>
</tr>
<tr>
<td>MUS 203, 302, 303, plus one course elected from MUS 500, 501, 502, 503, 504, 505 or 506</td>
<td>12</td>
</tr>
<tr>
<td><strong>Appropriate Music Ensemble</strong></td>
<td></td>
</tr>
<tr>
<td>Each semester .......................................................................................</td>
<td>8</td>
</tr>
<tr>
<td><strong>Subtotal: Major Hours</strong></td>
<td><strong>60</strong></td>
</tr>
</tbody>
</table>

Students in music performance must choose one of the following concentrations:

#### Concentration in an Instrument

1. All music majors must pass a piano proficiency examination and should schedule, in consultation with their advisor, a suitable course each semester until this requirement is completed. Students with little or no prior piano study should normally expect to complete the piano proficiency examination by the end of four semesters of study .......... 4 or as needed
3. Conducting: MUS 358 ............................................................................. 2
4. Electives ............................................................................................... 13
5. Junior Recital: the successful completion of a solo recital must be completed for graduation.

#### Subtotal: Instrument Concentration ........................................ 28

#### Concentration in Piano

1. All music majors must pass a piano proficiency examination. Piano majors work toward this goal as part of their keyboard study .................................................. 0
2. Music Theory: MUS 370, 372, and choice of MUS 572 or 573 .................. 7
3. Piano Literature: MUS 522 ..................................................................... 3
4. Piano Pedagogy: MUS 566 ....................................................................... 3
5. Conducting: MUS 358 ............................................................................. 2
6. Electives ............................................................................................... 15
7. Senior Recital: the successful completion of a solo recital must be completed for graduation.

#### Subtotal: Piano Concentration ............................................. 30

#### Concentration in Organ

1. All music majors must pass a piano proficiency examination. Organ majors work toward this goal as part of their keyboard study .................................................. 0
2. Piano – one credit course MUP 101, MUP 201, each repeated once .......... 4
3. Music Theory: MUS 370, 372, and choice of MUS 572 or 573 ............... 7
4. Organ Literature: MUS 521 ..................................................................... 3
5. Conducting: MUS 358 ............................................................................. 2
6. Electives ............................................................................................... 14
7. Senior Recital: the successful completion of a solo recital must be completed for graduation.

#### Subtotal: Organ Concentration ............................................. 30

#### Concentration in Voice

1. All music majors must pass a piano proficiency examination and should schedule, in consultation with their advisor, a suitable course each semester until this requirement is completed. Students with little or no prior piano study should normally expect to complete the piano proficiency examination by the end of four semesters of study .......... 4 or as needed
2. Music Theory: MUS 370, 372, and choice of MUS 572 or 573 .................. 7
3. Foreign Language – Select two languages from Italian, French, or German and pass the third semester course of one language (or demonstrate equivalent competence) and the second semester course of another language (or demonstrate equivalent competence); or from these same three languages, pass the second semester course of one language (or demonstrate equivalent competence), the second semester course of a second language (or demonstrate equivalent competence) and the first semester of a third language (or demonstrate equivalent competence) .......... 0-19
4. Foreign Language Vocal Diction: MUS 120 (two semesters) ....................... 2
5. Vocal Solo Literature: MUS 520 ................................................................ 3
6. Conducting: MUS 358 ............................................................................. 2
7. Opera Workshop: MUC 196 (two semesters) ....................................... 2
8. Movement for Singers: MUC 197 .......................................................... 1
9. Opera Project: MUC 198 (two semesters) ............................................ 2
10. Electives ............................................................................................... 6-8
11. Senior Recital: the successful completion of a solo recital must be completed for graduation.

**Subtotal: Voice Concentration** ............................................. 20-48

**TOTAL HOURS:** .............................................................................. 120

### Requirements for the Bachelor of Music in Music Education

The major in music education is the joint concern of the School of Music in the College of Fine Arts and the Department of Curricula and Instruction in the College of Education. Admission to the program is granted only after the successful completion of an audition in the student’s performance area. In addition to completing the required courses, the student must present a half-recital or the equivalent on the major instrument or in voice during or after the sixth semester of study.

Music education majors who wish to receive a teaching certificate must meet the certification requirements of the College of Education, as well as the requirements for the College of Fine Arts. To qualify for student teaching and state teacher certification, a student must be officially admitted into the Music Education Program. Certification also requires successful completion of the NTE/Praxis II and a one-year paid internship. Additional information on TEP, NTE/Praxis II, certification and internship is outlined in the College of Education section of this Bulletin.

### University Studies Requirements

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

#### Oral Communication

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 262 and 362 or MUS 263 and 265 ...........................................</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Social Sciences

*PSY 100 plus one other course in a separate discipline as required by University Studies .......... 7

#### Humanities

HIS 104/105 ................................................................................. 6

*PSY 100 required for certification.

### Professional Education Requirements

#### Hours

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recital Attendance: (four courses – zero credit – completed satisfactorily)</td>
<td>0</td>
</tr>
<tr>
<td><strong>Music Theory</strong></td>
<td></td>
</tr>
<tr>
<td>MUS 170, 171, 172, 173, 270, 271, 272, 273 .......................................</td>
<td>16</td>
</tr>
<tr>
<td><strong>Major Instrument Study</strong></td>
<td></td>
</tr>
<tr>
<td>Choose option from Instrument, Piano, Organ or Voice (see below) .............</td>
<td>24</td>
</tr>
<tr>
<td><strong>Recital Attendance</strong></td>
<td></td>
</tr>
<tr>
<td>MUS 001 Recital Attendance (four courses – zero credit – completed satisfactorily)</td>
<td>0</td>
</tr>
<tr>
<td><strong>Music History</strong></td>
<td></td>
</tr>
<tr>
<td>MUS 203, 302, 303, plus one course elected from MUS 500, 501, 502, 503, 504, 505 or 506</td>
<td>12</td>
</tr>
<tr>
<td><strong>Appropriate Music Ensemble</strong></td>
<td></td>
</tr>
<tr>
<td>Each semester .......................................................................................</td>
<td>8</td>
</tr>
<tr>
<td><strong>Subtotal: Major Hours</strong></td>
<td><strong>60</strong></td>
</tr>
</tbody>
</table>

#### Subtotal: Professional Education ........................................ 21-22

### Music Requirements – General

#### Hours

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recital Attendance: (four courses – zero credit – completed satisfactorily)</td>
<td>0</td>
</tr>
<tr>
<td><strong>Music Theory</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Music History</strong></td>
<td></td>
</tr>
<tr>
<td>MUS 203, 302, 303 .............................................................................</td>
<td>9</td>
</tr>
<tr>
<td>**Performance: MUP in major performance area ........................................</td>
<td>12</td>
</tr>
<tr>
<td><strong>Senior Recital: the successful completion of one half a solo recital must be completed for graduation.</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Ensembles (one of which must be a chamber music ensemble):</strong> ...............</td>
<td>6</td>
</tr>
<tr>
<td>Electives (excluding ensemble): ................................................................</td>
<td>6</td>
</tr>
<tr>
<td>**Subtotal: General Major Requirements ...........................................</td>
<td>53</td>
</tr>
</tbody>
</table>
Music Education – Major Performance Areas

Depending on the area of interest, the student must select one of the major performance areas below:

Major Performance Area – Vocal

A. Diction: MUS 120 (two semesters) ................. 2
B. All music majors must pass a piano proficiency examination and should schedule, in consultation with their advisor, a suitable course each semester until this requirement is completed. Students with little or no prior piano study should normally expect to complete the piano proficiency examination by the end of four semesters of study. Music Education majors should pass the piano proficiency examination at least two semesters before student teaching. ......................... 4 or as needed
C. Music Education: MUS 262, 264, 360, 361, 362 .......... 15
D. Secondary Instruments–choose three of the following: MUC 157, MUC 158, MUC 161, MUC 163 .................. 3

Subtotal: Vocal Performance Area .................. 24

Major Performance Area – Keyboard

A. All music majors must pass a piano proficiency examination. Keyboard majors work towards this goal as part of their keyboard study. Music education majors should pass the piano proficiency exam at least two semesters before student teaching.
B. Minor Performance: MUP 102, 202 ................. 3
A voice proficiency test must be passed prior to student teaching.
C. Pedagogy and Literature–select one of the following: MUS 522, 523, 536 ......................... 3
D. Music Education: MUS 262, 264, 360, 361, 362 ......................... 15
E. Secondary Instruments–choose three of the following: MUC 157, MUC 158, MUC 161, MUC 163 .................. 3

Subtotal: Keyboard Performance Area ............ 24

Major Performance Area – Woodwinds, Brass, Strings, Percussion

A. All music majors must pass a piano proficiency examination and should schedule, in consultation with their advisor, a suitable course each semester until this requirement is completed. Students with little or no prior piano study should normally expect to complete the piano proficiency examination by the end of four semesters of study. Music Education majors should pass the piano proficiency examination at least two semesters before student teaching. ......................... 4 or as needed
B. Secondary Instruments
Brass, Woodwind and String majors: Choose five hours from MUC 158, 161, and 163, plus one hour of MUC 157 .................. 6
Percussion majors: Take two hours each of MUC 158, 161, and 163 .................. 6
C. Music Education: MUS 263, 265, 360, 363, 365 .......... 15

Subtotal: Woodwinds, Brass, Strings, Percussion Performance Area .......... 25

TOTAL HOURS: ..................................... 120

Minor in Music

Students from any college may complete a minor in music, selecting either an emphasis in theory/history or performance. Such a minor consists of at least 18 hours of course work in music. In the theory/history emphasis, six to nine hours of music theory, six to nine hours of music history, and three hours of music performance are required. In the performance emphasis, eight hours of performance instruction, four hours of appropriate ensemble, and six hours of music history or theory are required. A successful audition is required for private performance study in the designated area (level of performance expectation is that of entering freshman music major). The course requirements are as follows:

Minor in Music: Music Theory and History
1. Music Theory (six to nine hours)
   Students should choose from: MUS 174 Theory for Non-Music Majors ............ 3
   MUS 170/171 Theory I: Elementary Aural and Written Theory .................. 4
   (Theory placement examination or MUS 174 is a prerequisite)
   MUS 172/173 Theory I: Elementary Aural and Written Theory .................. 4
   (MUS 170/171 are prerequisites)
2. Music History (six to nine hours)
   Students should choose from: MUS 100 Introduction to Music .................. 3
   MUS 201 Music in Western Culture to 1700 ......... 3
   MUS 202 Music in Western Culture, 1700 to Present .................. 3
   MUS 203 History of Music I .............. 3
   MUS 206 American Music .............. 3
   MUS 220 Symphonic Music .............. 3
   MUS 221 Survey of Vocal Music: Opera, Art Song, Choral Music .............. 3
   MUS 300 History of Jazz .............. 3
   MUS 301 Appalachian Music .............. 3
   MUS 302 History of Music II .............. 3
   MUS 303 History of Music III .............. 3
   MUS 330 Music in the World (Subtitle required) .............. 3
   Note: Some variation in the above courses is possible, with written approval from the Director of Undergraduate Studies, School of Music. The availability of the minor in music performance is dependent on sufficient time within the appropriate instructor’s designated teaching load.

DEPARTMENT OF THEATRE

The Department of Theatre envisions itself as a community of artists and scholars working collectively toward the study, practice, and development of theatre art. Our agenda is to promote the idea of theatre as social micro-cosmos, as a civilizing and collaborative venture dedicated to bringing out the best in each participant. While curricular and cocurricular activities extend across the whole range of theatre, special opportunities exist for those interested in acting, directing, design or technical theatre, and management.

Requirements for the B.A. with a major in THEATRE

The major in theatre must include the following:

College Requirements
Art, Music and/or Arts Administration ............... 6
plus 39 hours at 300-level or above

Subtotal: College Required Hours ............ 6

University Studies Requirements Hours
See "University Studies Program" on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Progression Requirements
Students must receive 3.0 or higher in the premajor classes to progress from provisional major status.

Premajor Requirements Hours
TA 115 Freshman Studio ...................... 8
TA 171 World Theatre I .............. 3
Subtotal: Premajor Hours .............. 11

Major Requirements
TA 215 Sophomore Studio ...................... 3
TA 260 Stagecraft ...................... 3
TA 265 Costume Construction ...................... 3
TA 267 Lighting and Sound Technology .............. 3
TA 271 World Theatre II .............. 3
TA 275 Stage Management ...................... 3
TA 315 Junior Studio: Acting Intensive or
TA 316 Junior Studio: Design Intensive .............. 3
TA 371 World Theatre III, 1800-1950 .............. 3
TA 387 Seminar in Theatre (repeatable) .............. 3
TA 390 Theatre Practicum (repeat five times) .............. 5
TA 415 Senior Studio ...................... 3
Subtotal: Major Hours .............. 35
Electives
Students must choose at least one course from each category below. A total of 24 electives are required for graduation.

Practice and Performance
TA 300 Special Projects in Theatre (Subtitle required) .......................... 1-3
TA 326 Advanced Acting (Subtitle required) .................. 3
TA 330 Theatre Directing I ........................................ 3
TA 516 Playwriting .................................................... 3
TA 526 Playwriting II .................................................. 3
TA 530 Experiment in Directing (repeatable once) .... 3

Design and Technology
TA 360 Graphics for Theatre ........................................ 3
TA 365 Costume Design .............................................. 3
TA 367 Lighting Design ............................................. 3
TA 368 Visual Storytelling ......................................... 3
TA 374 Scene Design .................................................. 3
TA 470 Advanced Project in Design (repeatable) ...... 3

Theory and History
TA 384 Black Theatre Workshop ................................ 3
TA 471 World Theatre IV, 1950-Present .................... 3
TA 485 French Theatre: Culture, Text and Performance ........................................ 3
TA 486 Social Action Theatre ........................................ 3
TA 584 Asian Theatre .................................................. 3
TA 587 Gender and Performance (Subtitle required) .................................................................... 3

Related Experience/Electives
Students must complete nine hours of course credit related to but outside the College of Fine Arts. Courses used to fulfill University Studies Program electives may also be used to fulfill this requirement.

Subtotal: Related Experience/Electives ........................................ 6
TOTAL HOURS: ........................................... 120

Minor in Theatre
Students from any college may choose to minor in theatre. This minor requires at least 21 hours of course work arranged as follows:

1. Prerequisites
   Hours
   TA 150 Fundamentals of Design and Production ........................................ 3
   TA 126 Acting I: Fundamentals of Acting ........................................ 3
   When appropriate, upper level courses may be substituted with the approval of the student’s advisor and the chairperson of the Department of Theatre.

2. Performance/Production Experience
   TA 390 Theatre Practicum (repeat three times) .................. 3

3. Elected Theatre courses (12 hours)
   Of these 12 hours, at least three hours must be at the 300 level or above.

INTERDISCIPLINARY PROGRAMS

Requirements for the B.A. with a major in ARTS ADMINISTRATION

With the increase in the number of performing and visual arts facilities, arts councils and arts advocacy groups, there is a growing need for individuals with both artistic sensibilities and business acumen to work in these organizations. Through the arts administration program, students take classes in the disciplines of art, dance, music, and theatre, plus a wide range of courses related to the business management of nonprofit arts organizations. The program prepares students for entry-level management positions in arts organizations and for graduate study.

Admission
To be admitted into the Arts Administration Program as a major, an applicant must first:
1. be enrolled in the University of Kentucky;
2. complete 45 semester hours of coursework;
3. have a minimum 2.8 cumulative grade-point average;
4. complete premajor core requirements (AAD 200 and 202, and one of the following: COM 181, COM 287, TA 225), plus ACC 201 and ECO 201 with a cumulative grade-point average of 3.0; and
5. submit an application form.

Students meeting these requirements will be accepted as majors in the program. Applications for admission must be submitted before the end of the semester prior to a student taking an upper division Arts Administration course.

Students who want to be a major, but have not met one or more of the above requirements will be designated as “premajors.” There is no application procedure for students to become Arts Administration premajors. Upon their request, premajors will be assigned Arts Administration advisors and folders will be created for them.

Students in arts administration must complete the following program requirements:
College Requirements
Art, Music or Theatre
outside of AAD arts discipline ......................... 6
plus 39 hours at 300-level or above

Subtotal: College Required Hours .......... 6

University Studies Requirements Hours
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) in the premajor, major and disciplinary track requirements may also be used to satisfy University Studies requirements.

Inference – Logic
STA 200 Statistics: A Force in Human Judgement .... 3
PHI 120 Introductory Logic ............................... 3

Oral Communication
COM 181 Basic Public Speaking or
COM 287 Persuasive Speaking or
TA 225 Vocal Production for the Stage I ............ 3

Social Sciences
ECO 201 Principles of Economics I ................... 3
plus one other USP offering ............................. 3

Humanities
A-H 105 Ancient Through Medieval Art ............ 3
A-H 106 Renaissance Through Modern Art ........ 3

USP Electives
Students are strongly encouraged to choose from courses in arts disciplines complementary to their arts discipline track.

Premajor Requirements Hours
AAD 200 Arts Administration Communications ...... 3
(prereq: completion of USP English requirements)
AAD 202 Arts Administration Technologies I ........ 3
ACC 201 Financial Accounting I ....................... 3
*ECO 201 Principles of Economics I ................. 3
plus one of the following:
*COM 181 Basic Public Speaking ....................... 3
*COM 287 Persuasive Speaking ......................... 3
*TA 225 Vocal Production for the Stage I .......... 3

Subtotal: Premajor Hours .................. 15

Major Requirements Hours
AAD 101 Arts Administration Professions .......... 2
(2 semesters completed satisfactorily required)
ACC 202 Managerial Uses of
Accounting Information .................................... 3
ECO 202 Principles of Economics II .................. 3
*AAD 310 Marketing the Arts ......................... 3
*AAD 320 Fund Raising for the Arts .................. 3
*AAD 340 Arts Management Issues .................. 3
*AAD 350 Financial Management
of Arts Organizations .................................... 3
*AAD 399 Arts Administration Practicum (may substitute for 3 credits of AAD 499) .......................... 1

**AAD 402 Topics in Arts Administration
(Subtitle required) ......................................... 3

*AAD 499 Internship in Arts Administration (A-H 502 Museum Studies II: Internship may substitute for 3 credits of AAD 499) .......................... 6

1) Prereq: Completion of AAD 200, AAD 202 and one of the following: COM 181, COM 267, TA 225, or consent of instructor.

2) Additional AAD 402 courses may be taken under different subtitles as Directed Electives; may be repeated up to 12 credits.

Subtotal: Major Hours ................................. 30

In addition to the Major Requirements, majors must fulfill the requirements of one of the following arts discipline tracks: Art History, Art Studio, Music History, Music Performance, or Theatre.

Art History Track Hours
A-S 102 Visual Exploration I ............................. 3
A-S 103 Visual Exploration II ............................ 3
Two of the following courses:
A-H 104 Introduction to African Art
*A-H 105 Ancient Through Medieval Art
*A-H 106 Renaissance Through Modern Art ........ 6
ART 191 Art Professions .................................. 1
At least one course from four of the following courses:

Non-Western Art
A-H 307 Ancient Near Eastern and Egyptian Art .... 3
A-H 308 Studies in African Art
(Subtitle required) ........................................... 3

Ancient and Medieval Art
A-H 312 Studies in Greek Art
(Subtitle required) ........................................... 3
A-H 313 Studies in Roman Art
(Subtitle required) .......................................... 3
A-H 323 Studies in Medieval Art
(Subtitle required) .......................................... 3

Renaissance and Early Modern Art
A-H 334 Studies in Renaissance Art
(Subtitle required) ........................................... 3
A-H 335 Studies in Early Modern Art,
1500-1700 (Subtitle required) ......................... 3

18th and 19th Century Art
A-H 339 Studies in Art
1700-1840 (Subtitle required) ......................... 3
A-H 340 Studies in Art
1840-1914 (Subtitle required) ......................... 3
A-H 342 Studies in American Art
(Subtitle required) ........................................... 3

Modern Art
A-H 341 Studies in 20th Century Art
(Subtitle required) ........................................... 3
A-H 342 Studies in American Art
(Subtitle required) ........................................... 3
A-H 343 History of Photography ....................... 3
A-H 350 Contemporary Art ............................ 3
plus:
A-H 501 Museum Studies I: Introduction ............ 3
Art Education Elective (must be at the 500 level) ... 2-3

plus two of the following:
A-H 525 Studies in Genres and Media
(Subtitle required) ........................................... 3
A-H 526 Art and the Artist in Society
(Subtitle required) ........................................... 3
A-H 527 Art Within Its Interdisciplinary Framework
(Subtitle required) ........................................... 3
A-H 528 Topical Seminar in Art History
(Subtitle required) ........................................... 3
A-H 555 Methods in Art History ......................... 3

Subtotal: Art History Hours .................. 33-35

Music History Track Hours
A-S 200 Studio I ............................................. 3
A-S 215 Studio II ............................................ 3
Two A-S 300-level studio courses ...................... 6
A-H 501 Museum Studies I: Introduction ............ 3
One art history course at the 300 level or above .... 3
Art Education Elective
(must be 500 level or above) .............................. 3

Subtotal: Art Studio Hours .................. 34-35

Art Studio Track Hours
A-S 102 Visual Exploration I ............................. 3
A-S 103 Visual Exploration II ............................ 3
Two of the following courses:
A-H 104 Introduction to African Art
*A-H 105 Ancient Through Medieval Art
*A-H 106 Renaissance Through Modern Art ........ 6

Music Performance Track Hours
A placement test is required before students enroll in MUS 170 and MUS 171; those students who do not pass the placement test must first take MUS 174.
MUS 170 Theory I – Elementary Aural Theory ........ 2
MUS 171 Theory I – Elementary Written Theory ..... 2
MUS 172 Theory I – Elementary Aural Theory ........ 2
MUS 173 Theory I – Elementary Written Theory ..... 2
MUS 001 Recital Attendance
(four semesters required) .................................. 0

Subtotal: Music History Hours ................ 32

Music Performance Track
A placement test is required before students enroll in MUS 170 and MUS 171; those students who do not pass the placement test must first take MUS 174.
MUS 170 Theory I – Elementary Aural Theory ........ 2
MUS 171 Theory I – Elementary Written Theory ..... 2
MUS 172 Theory I – Elementary Aural Theory ........ 2
MUS 173 Theory I – Elementary Written Theory ..... 2
MUS 001 Recital Attendance
(four semesters, two hours per semester) ............ 8
MUS 001 Recital Attendance
(four semesters required) ................................. 0

Subtotal: Music Studio Hours ................ 2-3
Complete either Option A or Option B:

**Option A**
Permission of instructor is required to enroll in MUS 203, MUS 302, MUS 303.

MUS 203 History of Music I ....................................... 3
MUS 302 History of Music II ...................................... 3
MUS 303 History of Music III ..................................... 3

**Option B**
Choose nine hours from:
MUS 206 American Music ........................................... 3
MUS 220 Symphonic Music ........................................ 3
MUS 221 Survey of Vocal Music: Opera, Art Song, Choral Music ......................................... 3
MUS 222 History and Sociology of Rock Music ........... 3
MUS 300 History of Jazz ............................................ 3
MUS 301 Appalachian Music ..................................... 3
MUS 330 Music in the World (Subtitle required) ................. 3

*Subtotal: Music Performance Hours .......... 32

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**Theatre Track**

**Directed Electives**
Nine credits chosen in consultation with the student’s academic advisor from the following areas:

1. AAD 402 Topics in Arts Administration (Subtitle required) ........................................... 3
   May be repeated to a maximum of 12 credit hours when identified by different subtitles. Must be different subtitle than that used to meet Arts Administration Core Requirement.
2. Courses from the College of Business and Economics.
3. Courses from the College of Communications and Information Studies.
4. Courses from an arts disciplines, such as architecture, art history, art studio, dance, English, music history, music performance, and theatre, outside of the student’s arts discipline track.

Directed electives may not be used to meet University Studies requirements.

*Subtotal: Directed Electives ....................... 9

**Free Electives**
In addition to meeting their University Studies and major requirements, students must earn 6 credits in any area(s) of their choosing.

*Subtotal: Free Electives ....................... 6

**TOTAL HOURS: ....................... 121

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**Interdisciplinary Minor in the Arts**

**For Students outside the College**
Any student whose major concentration is outside the College of Fine Arts may choose to minor in the arts, an academic program that cuts across disciplinary lines. This minor requires at least 24 hours of course work, arranged as follows:

**Prerequisites (9 hours)**
ART 100 Introduction to Art ...................................... 3
MUS 100 Introduction to Music .................................... 3

*Note: When appropriate, upper level courses may be substituted with the approval of the student’s advisor and the Dean of the College of Fine Arts.

**Elected Courses (15 hours)**
Of these 15 hours, students must take at least six hours in each of two different disciplines (art, music, or theatre).

**Performance and/or Studio Experience**
Students must have performance and/or studio experience within the college in at least one of the arts, whether or not for academic credit.

**For Students within the College**
Any student whose major emphasis lies within the College of Fine Arts may choose to minor in the arts by selecting at least 24 hours of course work in the College of Fine Arts (art, music, or theatre) outside the major. The minor must include at least nine hours of credit in each of the disciplines outside the major department or school. No more than six hours of course work used as “related work” for the major may be used toward the minor.
The Gaines Center for the Humanities is distinctive among special programs at state universities. Designed to enrich the upper levels of undergraduate study and thereby to offer exceptional opportunities for dedicated students, the programs of the center are open on a competitive basis to any student interested in the humanities, regardless of particular major or intended profession.

Activities of the Gaines Center are developed to encourage participation by a large segment of the university population. Conferences and lectures, informal seminars and discussions are open to all those interested. While the center’s principal purpose is to enhance an appreciation of the humanities, its programs are arranged to stimulate inquiry about the relationship of the humanities to other broad areas of investigation, such as the sciences, the arts, and the professions.

The John R. and Joan B. Gaines Fellowships in the Humanities

A major feature of the Gaines Center for the Humanities is the Gaines Fellowship Program. The Gaines Fellowships are given in recognition of outstanding academic performance, demonstrated independent study, an interest in public issues, and a desire to enhance understanding of the human condition.

The fellowships are awarded in the student’s sophomore year for tenure in the junior and senior years. Renewal in the senior year is contingent upon satisfactory academic performance.

All Gaines Fellows are required to take a specially-designed, four-credit-hour seminar in the humanities (HMN 301 and HMN 302) during both semesters of the junior year. Moreover, each Fellow in the senior year completes an undergraduate thesis (HMN 497) under the supervision of three faculty members and with a credit of six to fifteen hours.

The completion of this program satisfies the University Studies requirement in cross-disciplinary work.

Gaines Fellows also participate in all social and cultural activities sponsored by the Gaines Center.

Eligibility

Any student enrolled at the University of Kentucky, or any student enrolled in a community college who intends to transfer to the University of Kentucky, is eligible to apply.

The Thomas D. Clark Lectureship in the Humanities

Created to bring eminent scholars and authors to the campus for an extended residency, the Thomas D. Clark Lectureship stipulates that the recipient will offer two or three public lectures to be published by the University Press of Kentucky, and will lead several sessions of a special humanities seminar related to the Lecturer’s professional field of interest. Juniors and seniors, selected on the basis of written application, participate in this seminar.

The Sophomore Initiative

This is a one-credit, pass/fail course initiated by competitive selection of proposals submitted by sophomores. The proposal must be of a topic concerned with the humanities in an international context. The resulting course is open to UK students on a competitive basis. This course will be offered every other year in the second semester.

The Mary C. Bingham Seminar in the Humanities

Offered every other year and open on a competitive basis to any student in the third year of study, this seminar combines course work with a special four-week field trip either in this country or abroad (three credit hours). The seminar is concerned with the comparative study of a humanities subject that benefits from site analysis (e.g., cities, landscape). Conducted by a faculty member whose proposal has been selected in competition, the seminar offers up to a $1,000 summer travel scholarship to each student participant.

Edward T. Breathitt Undergraduate Lectureship in the Humanities

The Edward T. Breathitt Lectureship is the first undergraduate lectureship established at an American university. It is named in honor of an eminent Kentuckian and an outstanding alumnus of the University of Kentucky whose interest in higher education has been exceptional.

The lectureship is awarded to an undergraduate student whose qualities of mind and spirit have been expressed eloquently on one or more of the basic characteristics that distinguish the humanities as fields of study. They are: form, value, memory.

Any university faculty member may nominate a qualified upper level student from any discipline. Each nominee must submit a two-page prospectus describing the lecture topic (to be of the candidate’s own choice) and a brief, tentative biography, as well as a personal resume and an additional letter of recommendation. The recipient receives a special award and an honorarium.

How to Apply

Students interested in any of these special educational opportunities should write or telephone:

Gaines Center for the Humanities
232 East Maxwell Street
University of Kentucky
Lexington, KY 40506-0344
(859) 257-1537
The University of Kentucky began offering graduate work in 1870, and awarding degrees in 1876. The Graduate School was organized as a distinct unit in 1912. The Graduate School is concerned with advanced study and research carried on by the faculty and students of all colleges and departments. Under it, the total graduate resources of the University are merged in order to promote the achievement of knowledge in an atmosphere of free and lively inquiry.

More information is available on the Web at: www.research.uky.edu/gs/.

**GRADUATE DEGREES**

Graduate work is offered in most colleges in the University. The following advanced degrees are conferred:

- **DOCTOR OF EDUCATION**
- **DOCTOR OF MUSICAL ARTS**
- **DOCTOR OF PHILOSOPHY**
- **DOCTOR OF SCIENCE**
- **MASTER OF ARTS**
- **MASTER OF ARTS IN EDUCATION**
- **MASTER OF ARTS IN INTERIOR DESIGN, MERCHANDISING AND TEXTILES**
- **MASTER OF ARTS IN TEACHING WORLD LANGUAGES**
- **MASTER OF BUSINESS ADMINISTRATION**
- **MASTER OF CIVIL ENGINEERING**
- **MASTER OF EDUCATION**
- **MASTER OF ENGINEERING**
- **MASTER OF FINE ARTS**
- **MASTER OF HEALTH ADMINISTRATION**
- **MASTER OF HISTORIC PRESERVATION**
- **MASTER OF MINING ENGINEERING**
- **MASTER OF MUSIC**
- **MASTER OF PUBLIC ADMINISTRATION**
- **MASTER OF PUBLIC HEALTH**
- **MASTER OF PUBLIC POLICY**
- **MASTER OF REHABILITATION COUNSELING**
- **MASTER OF SCIENCE**
- **MASTER OF SCIENCE IN ACCOUNTING**
- **MASTER OF SCIENCE IN AGRICULTURE**
- **MASTER OF SCIENCE IN ATHELETIC TRAINING**
- **MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING**
- **MASTER OF SCIENCE IN BIOSYSTEMS AND AGRICULTURAL ENGINEERING**
- **MASTER OF SCIENCE IN CAREER, TECHNICAL, AND LEADERSHIP EDUCATION**
- **MASTER OF SCIENCE IN CHEMICAL ENGINEERING**
- **MASTER OF SCIENCE IN CIVIL ENGINEERING**
- **MASTER OF SCIENCE IN COMMUNICATION DISORDERS**
- **MASTER OF SCIENCE IN EDUCATION**
- **MASTER OF SCIENCE IN ELECTRICAL ENGINEERING**
- **MASTER OF SCIENCE IN FAMILY STUDIES**
- **MASTER OF SCIENCE IN FORESTRY**
- **MASTER OF SCIENCE IN HEALTH PHYSICS**
- **MASTER OF SCIENCE IN INTERIOR DESIGN, MERCHANDISING AND TEXTILES**
- **MASTER OF SCIENCE IN LIBRARY SCIENCE**
- **MASTER OF SCIENCE IN MANUFACTURING SYSTEMS ENGINEERING**
- **MASTER OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING**
- **MASTER OF SCIENCE IN MECHANICAL ENGINEERING**
- **MASTER OF SCIENCE IN MINING ENGINEERING**
- **MASTER OF SCIENCE IN NURSING**
- **MASTER OF SCIENCE IN NUTRITIONAL SCIENCES**
- **MASTER OF SCIENCE IN PHYSICAL THERAPY**
- **MASTER OF SCIENCE IN PHYSICIAN ASSISTANT STUDIES**
- **MASTER OF SCIENCE IN PUBLIC HEALTH**
- **MASTER OF SCIENCE IN RADIOLOGICAL MEDICAL PHYSICS**
- **MASTER OF SOCIAL WORK**
- **PROFESSIONAL MASTER OF BIOMEDICAL ENGINEERING**
- **SPECIALIST IN EDUCATION**

The degree of Doctor of Philosophy is offered with major work in the following fields: agricultural economics, anatomy and neurobiology, animal sciences, anthropology, biology, biomedical engineering, biosystems and agricultural engineering, business administration, chemical engineering, chemistry, civil engineering, communication, computer science, crop science, economics, educational and counseling psychology, electrical engineering, English, entomology, family studies, geography, geology, gerontology, studies in higher education, history, materials science and engineering, mathematics, mechanical engineering, microbiology, mining engineering, molecular and biomedical pharmacology, molecular and cellular biochemistry, music, nursing, nutritional sciences, pharmaceutical sciences, philosophy, physics and astronomy, physiology, plant pathology, plant physiology, political science, psychology, public administration, rehabilitation sciences, social work, sociology, soil science, Spanish, statistics, toxicology, and veterinary science.

**Multidisciplinary Graduate Degree Programs**

There are five multidisciplinary graduate degree programs administered in the Graduate School: Biomedical Engineering, Diplomacy and International Commerce, Health Administration, Nutritional Sciences, and Public Administration. Students interested in information on these programs should contact the program directors at the addresses listed below.

**Dr. David Puleo, Director**

Biomedical Engineering

207 Rose Street

University of Kentucky

Lexington, KY 40506-0070

Carey Cavanaugh, Ambassador (ret.)

The Patterson School of Diplomacy and International Commerce

455 Patterson Office Tower

University of Kentucky

Lexington, KY 40506-0027

Dr. Ed Jennings, Director

James W. Martin School of Public Policy and Administration

Public Administration/Health Administration

419 Patterson Office Tower

University of Kentucky

Lexington, KY 40506-0027

Dr. Lisa Cassis, Director

Graduate Center for Nutritional Sciences

417 College of Pharmacy

University of Kentucky

Lexington, KY 40506-0082

**ORGANIZATION OF THE GRADUATE SCHOOL**

The Graduate Faculty consists of the Dean of the Graduate School and all persons appointed thereto by the President of the University. As the chief University agency for the promotion of the ideals of graduate study, it determines the policies of the Graduate School and makes recommendations to the University Senate on such matters as require the approval of that body. All rules affecting graduate work and the inauguration of new graduate programs must be approved by the Graduate Faculty.

The Dean. The Dean of the Graduate School is charged with the administration of the policies adopted by the Graduate Faculty and the University Senate relating to graduate studies.

The Graduate Council is composed of 18 members and the Dean of the Graduate School, who serves as chair. There are 16 faculty representatives and two student representatives. Associate deans serve in a nonvoting, ex officio capacity.
The Graduate Council approves or disapproves proposals concerning courses offered for graduate credit, and advises and lends assistance to the Dean of the Graduate School in his execution of policies and regulations determined by the Graduate Faculty.

Directors of Graduate Studies. A Director of Graduate Studies is appointed for each program of graduate study. Among other duties, each director serves as advisor to students majoring in his or her area.

ADMISSION

Students seeking admission to a degree program in the Graduate School must hold a baccalaureate degree from a fully accredited institution of higher learning. An overall undergraduate grade-point average of 2.75 and 3.0 on all graduate work is required by the Graduate School. Individual departments may require higher grade-point averages.

All applicants for admission to degree programs in the Graduate School must submit official scores on the verbal, quantitative and analytical writing portions of the Graduate Record Examination, except programs with approved alternate requirements (Accounting, Business Administration, Health Administration, and Public Health may substitute the GMAT).

New students applying for admission must have two official transcripts sent by each institution of higher learning previously attended. Applicants may send official transcripts, issued by the Registrar in a sealed envelope, along with the application. All transcripts must be sent to the Graduate School.

International applicants must meet the requirements listed above, as well as the English proficiency requirement; additional details are available in The Graduate School Bulletin.

Students can submit applications for admission electronically from the Graduate School Website at: www.gradschool.uky.edu. Otherwise, application forms can be printed from the Graduate School Website and mailed to the address below:

The Graduate School
101 Gilles Building
University of Kentucky
Lexington, KY 40506-0033

Complete applications must be submitted no later than one month before the beginning of the term the applicant intends to begin graduate work (six months for international applicants). Students should refer to the University Calendar in the front of this Bulletin for important dates.

University Scholars Program (Combined Master’s/Bachelor’s Degree Program)

At the University of Kentucky there are some particularly gifted and highly motivated students whose well-defined academic and career plans include graduate study. The University Scholars program offers these students the opportunity and the challenge of integrating their undergraduate and graduate courses of study in a single continuous program culminating in both a baccalaureate and master’s degree.

Requirements for this program are listed in the Special Academic Programs section of this Bulletin.

Graduating Seniors as Part-Time Graduate Students

A senior at the University of Kentucky lacking no more than six credit hours for graduation and having an undergraduate grade-point average of at least 2.75 on all work attempted may register in a degree program in the Graduate School with the consent of his or her college dean, the Director of Graduate Studies, and the Dean of the Graduate School.

The total load of such a student may not exceed 12 credit hours. Graduate credit will be allowed for each credit hour of graduate work beyond the six or fewer credit hours needed to complete undergraduate requirements. Requirements for the undergraduate degree must be completed during the semester in which the student is allowed to register for part-time graduate work. A student applying for admission to the Graduate School under these conditions must fill out a petition form listing the course or courses to be taken in order to complete the undergraduate requirements. Petition forms are available in the Graduate School.

Conditional Admission

Students wishing to pursue a higher degree who are temporarily ineligible for regular graduate admission status may be recommended by the Director of Graduate Studies for conditional admission status for a maximum of one full-time semester. Students should refer to The Graduate School Bulletin for further information.

Post-Baccalaureate Graduate Students (Nondegree-Seeking Students)

Students who hold a baccalaureate degree and who wish to pursue graduate study without a degree objective may apply for admission as post-baccalaureate graduate students. An overall undergraduate grade-point average of 2.5 or better and 3.0 on all previous graduate work is required by the Graduate School for admission to post-baccalaureate status. Refer to The Graduate School Bulletin for further information.

Advanced Degrees for Faculty Members

Members of the faculty, except those in the Community College System, having a rank higher than that of instructor may not be considered as candidates for degrees in the discipline in which they are employed and hold academic rank.

DUAL DEGREE PROGRAMS

The University of Kentucky offers a number of dual degree programs; such programs require separate admission to each discipline involved. Dual degree programs currently in place are: J.D./M.B.A., J.D./M.P.A., M.D./M.B.A., M.D./M.P.H., Pharm.D./M.B.A., Pharm.D./M.P.A., Pharm.D./M.S.in Economics, B.S. in Engineering/M.B.A., and B.S. in Engineering/M.P.A. Combined study leading to both the M.D. and Ph.D. is also available. For more information on the dual degree programs, see The Graduate School Bulletin.

JOINT AND COOPERATIVE DOCTORAL PROGRAMS

Cooperative doctoral programs in education are offered between the University of Kentucky and other state universities: Eastern Kentucky University, Morehead State University, Murray State University, and Western Kentucky University. These programs permit qualified candidates to complete approximately one year of graduate work above the master’s degree at the cooperating university, and the work of each candidate is directed by a joint faculty committee from both institutions.

Cooperative doctoral programs in musicology, physics, and higher education are offered between the University of Kentucky and the University of Louisville; a cooperative program in geology between the University of Kentucky and the University of Western Kentucky University; and a cooperative program in history between the University of Kentucky and Western Kentucky University. A cooperative doctoral program in rehabilitation sciences is offered between the University of Kentucky, Eastern Kentucky University, Murray State University, and Western Kentucky University. The University of Kentucky and the University of Louisville share a joint Ph.D. program in Social Work.

For more information on joint and cooperative programs, see The Graduate School Bulletin.

INDEPENDENT STUDY PROGRAMS

(Correspondence Courses)

No graduate credit is given for courses taken by correspondence.
REGISTRATION AND CLASSIFICATION

All students expecting graduate credit must be enrolled in the Graduate School. Graduate students will conform to the general registration schedule of the University and may not enter later than the last allowable date set by the University Registrar.

Before registering, a graduate student must obtain his or her advisor’s approval of the proposed program.

ASSISTANTSHIPS, FELLOWSHIPS, STUDENT SUPPORT

Financial assistance is available in the form of assistantships and fellowships. An assistantship is an appointment to specified teaching or research duties. A fellowship is a non-service award made to superior students to assist in the pursuit of an advanced degree.

Assistantships

More than 1,500 teaching and research assistantships are available from departments and other units of the University. In addition to an assistantship stipend, full or partial tuition scholarships are available for most assistantship holders. University-provided health insurance is offered for full-time assistantships.

The majority of assistantships are awarded for the academic year. Students interested in an assistantship should notify the appropriate Director of Graduate Studies by January for the next academic year; later applicants have a reduced chance of obtaining an assistantship. Most assistantship decisions are made by April for the coming academic year.

Notification of an assistantship comes from the program. Contact the Director of Graduate Studies in the program you seek to enter regarding the availability of positions or the status of assistantship offers. For more information on assistantships, visit the Web at: www.gradschool.uky.edu/fellowship/assistantships.html.

Fellowships

Non-service fellowships are available in all areas of graduate work. The majority of these fellowships include a stipend as well as a tuition scholarship and university-provided student health insurance. Duration may be from one to three years, depending on fellowship type. While many fellowships are formally awarded by the Graduate School, nominations for most fellowships are made by the program in which a student seeks to enroll.

Fellowships are awarded for the academic year. Departments make fellowship nominations by February for the next academic year, so students interested in a fellowship are strongly urged to contact the appropriate Director of Graduate Studies no later than January 15 for the next academic year. Notification of fellowship awards generally comes from the Graduate School before April 15.

Students who represent underserved populations and women in under-represented areas applying for tuition scholarship and cost of education funding (Commonwealth Incentive Awards for Kentucky residents) or for a Lyman T. Johnson Fellowship are considered for fall only, spring only, as well as for academic year awards. For more information about these awards, call the Recruitment Office, (859) 257-4555, or visit the Web at: www.gradschool.uky.edu/fellowship/fellowships.html.

Awards are sometimes offered before an applicant is officially admitted to the Graduate School; all awards offered are contingent upon admission. Post-baccalaureate (nondegree) students are not eligible for fellowship consideration, or for those tuition scholarships that accompany most assistantships. Ethnically diverse students and women in under-represented areas are eligible for Commonwealth Incentive Awards.

Student Support

Funds are available to students enrolled in graduate programs for assistance with expenses relating to dissertation or thesis research, as well as for travel to present research at professional meetings. Application materials are available on the Web at: www.gradschool.uky.edu/fellowship/supportfunding.html.
The College of Health Sciences is one of the six health professions colleges which, with the University Hospital, constitute the health science campus of the University of Kentucky.

The College of Health Sciences is composed of the Department of Clinical Sciences and the Department of Rehabilitation Sciences.

Today health science professionals are assuming greatly expanded and increasingly complex duties and responsibilities as essential members of the health care team. They work in a variety of delivery settings and have key responsibilities for the care and health of patients, clients, and communities. The UK College of Health Sciences, established in 1966, was among the first colleges to offer programs for students interested in these rapidly developing health professions. The college strives continually to revise its offerings in keeping with society's evolving expectations and health care needs.

Undergraduate Programs in Health Sciences

The University of Kentucky grants the following degree in the College of Health Sciences:

• Bachelor of Health Sciences

Students pursuing the Bachelor of Health Sciences may select from these majors: clinical laboratory sciences, clinical leadership and management, and communication disorders.

ADMISSIONS PROCEDURES

Baccalaureate Programs

Baccalaureate programs in the College of Health Sciences are divided into preprofessional and professional programs. A preprofessional program is comprised of courses prerequisite to professional program content as well as University Studies requirements. Freshman and transfer students who have initially not completed prerequisites for entrance into a professional program complete only the first step of the application process — application to the University of Kentucky. Freshman applicants to the college will be admitted if they meet University entrance requirements.

A professional program is comprised of all courses and clinical experiences required for students who have applied for and have been accepted into professional programs. Consideration for admission to the college’s professional programs requires completion of prerequisite course work and completion of the professional application procedure.

Therefore, the admissions procedure for all undergraduate programs within the College of Health Sciences is a two-step process. Applicants must first be accepted by the University of Kentucky and second must apply for admission to a professional program approximately two semesters prior to completing prerequisites.

This selection procedure is necessary because of the limited space in the professional years of the health sciences programs.

Requirements for the first several years (preprofessional program) may be completed at the University of Kentucky, a community college, or another fully accredited college or university.

At the time of application to the professional program, the student should have completed the prerequisites required for application to the program he or she plans to enter, and have plans to complete all prerequisites before actual enrollment in the professional program.

It is essential that complete, accurate information be furnished on the application. Individuals seeking entry into the professional programs or those admitted to the programs through falsified or misleading information may be dropped from consideration or dismissed from the programs.

Persons not enrolled at the University of Kentucky must complete applications to both the University of Kentucky and the professional program. Application materials are available from:

Office of Student Affairs
College of Health Sciences
900 S. Limestone St.
University of Kentucky

APPLICATION DEADLINES FOR UNDERGRADUATE PROGRAMS IN HEALTH SCIENCES

Professional Program Applicants (Students who have completed prerequisites at UK, community colleges, or other accredited colleges or universities)

Students must request applications from the Office of Student Affairs in the College of Health Sciences. Applications for fall admission are available from September 1 to December 15; applications for spring admission are available from February 1 to April 30.

Fall Spring Summer

Clinical Laboratory Sciences
UK, Professional Program Applications, all supporting credentials April 1

Communication Disorders
UK, Professional Program Applications, all supporting credentials Feb. 1

“Being a student in the College of Health Sciences is not just about obtaining a degree. It is about working with fellow students who have a true desire for helping others and working with faculty who have a passion for their field and seeing their students succeed. The knowledge and clinical experience I am gaining here will be invaluable as I pursue a career in Communication Disorders. The faculty, staff, and students of the college work hand in hand to improve health professions in and around Kentucky. The College of Health Sciences has a genuine commitment to excellence, and I am so grateful to be a part of it.”

– Ashley Woodruff
Communication Disorders
Class of 2008
Department of Clinical Sciences

B.H.S. with a major in Clinical Laboratory Sciences

The mission of the Division of Clinical and Reproductive Sciences is to help the College of Health Sciences achieve its mission through creative leadership and productivity in clinical laboratory science education, research, and service.

The undergraduate Clinical Laboratory Sciences (CLS) program at the University of Kentucky prepares Clinical Laboratory Scientists who perform laboratory tests that aid in the prevention, diagnosis and treatment of disease. CLS graduates receive training in four major disciplines of the clinical laboratory: immunohematology (blood-banking), clinical chemistry, hematology, and microbiology. Additional course work includes phlebotomy, CLS education or clinical education, and laboratory management. CLS graduates are employed in a variety of health care settings including hospital and private laboratories, clinics, pharmaceutical companies, research institutions, the armed forces, public health centers, and veterinary clinics. In addition to performing clinical laboratory tests, CLS graduates also serve as consultants, managers, sales and technical representatives, and educators.

Admission

Admission into the Clinical Laboratory Sciences professional program requires:
- minimum cumulative grade-point average of 2.75 for all courses taken at institutions of higher education;
- three professional letters of recommendation;
- personal interview scores based on interviews with two CLS faculty members. The interview will focus on identifying the applicant’s strengths, commitment to, and knowledge of the profession;
- completion of the preprofessional requirements.

The application deadline for the 3 + 1 Program is April 1.

Preprofessional Requirements

The preprofessional program consists of (1) courses that fulfill the University Studies Program and (2) prerequisite courses required by the CLS professional program. The University Studies Program (USP) is a program of required subjects that all students enrolled at the University of Kentucky must complete in order to receive a baccalaureate degree. See “University Studies Program” on pages 77-81 for the complete University Studies requirements.

Prerequisite Course Requirements

2 semesters of general chemistry with laboratory
1 semester general microbiology with laboratory
1 semester of human physiology (or combined course in physiology and anatomy)
1 semester of statistical methods
1 semester of biochemistry (may take CLS 822 to fulfill this requirement)
1 semester of immunology (may take CLS 835 to fulfill this requirement)

Professional Course Requirements

CLS 832 Basic Clinical Chemistry ...................... 1
CLS 833 Basic Hematology .................................. 1
CLS 836 Laboratory Organization and Management ................................ 3
CLS 838 Basic Immunohematology ...................... 1
CLS 843 Advanced Clinical Hematology and Body Fluid Analysis .................... 3
CLS 844 Advanced Clinical Chemistry .................. 3
CLS 848 Advanced Immunohematology ................. 3
CLS 851 Basic Clinical Microbiology .................. 1
CLS 856 Advanced Clinical Microbiology .............. 4
CLS 860 Blood Collection .................................. 1
CLS 881 Immunohematology Practicum .................. 5
CLS 882 Practicum in Clinical Chemistry ............... 5
CLS 883 Practicum in Clinical Hematology ............. 5
CLS 884 Practicum in Clinical Microbiology ........... 5
CLS 890 Laboratory Investigation ........................ 3
CSC 528 Laboratory Techniques for Non-CSC Students ................................ 2

Subtotal: Professional Course Hours ............... 46

3 + 1 Program

The 10-month CLS professional program is offered on the Lexington campus of the University of Kentucky and encompasses the fourth year of study in the baccalaureate degree program. The program provides sequential instruction in laboratory medicine for the student who has been well prepared in science and mathematics during the first three years of university study. Through lecture, laboratory, demonstrations and clinical practice, students are prepared for clinical practice in the modern, automated laboratory. Graduates are eligible to take national certification examinations as Clinical Laboratory Scientists/Medical Technologists.

The program begins in the summer prior to the final year of study. During the summer session, students are introduced to the structure and regulatory guidelines of the clinical laboratory, and practice basic level clinical laboratory techniques in student laboratories. Following summer courses, students complete intense courses in the principles and practices of basic hematology and clinical chemistry. Students then complete practica in clinical chemistry and hematology laboratories while supported by faculty lectures and
demonstrations in advanced topics in these disciplines. Clinical practice is structured to sequentially present increasingly complex tasks.

Following winter break, students complete intense courses in the principles and practices of immunohematology and clinical microbiology. After completing lectures which cover basic practice in immunohematology and clinical microbiology, students complete practica in microbiology and immunohematology laboratories while supported by CLS faculty lectures and demonstrations. Concurrent with presentation of didactic materials and skills instruction, students integrate the knowledge that has been gained throughout the professional year by participating in an exploration of critical pathways and evidenced-based decision-making in the clinical laboratory.

Clinical practice may be completed at the University of Kentucky Hospital clinical laboratories and/or clinical laboratories throughout the state that have a current clinical affiliation agreement with the CRS Division in the College of Health Sciences. Throughout the year, students must attend classes on the Lexington campus, including all basic level instruction. Webcourses for advanced level didactic courses that coincide with the clinical practica may also include some on-campus meetings.

Students holding baccalaureate degrees in a health-related science including biology, chemistry, biochemistry, medical biology, immunology, anatomy, physiology, nutritional sciences or health sciences education may enroll in the Clinical Sciences professional program and earn a CHS certificate of completion. The required prerequisites must be completed before applying for admission. Upon successful completion of the 10-month professional program, the student will receive a CHS Certificate of Completion in CLS and be eligible for a national registry examination.

For additional information, refer to: www.mc.uky.edu/cls/. Or contact: Linda S. Gorman, Ph.D., NCA (CLS) 900 S. Limestone Street 126GCTW Building Lexington, KY 40536-0200 (859) 323-1100 ext. 8-0855 lsgorm0@uky.edu

Graduate Degrees in Clinical Sciences

The Clinical Sciences graduate programs offer a unique multidisciplinary masters and doctorate programs that address the rapidly changing health care environment and selected evolving clinical science disciplines. This program of study provides the opportunity for advanced education and career enhancement for health professionals in the clinical sciences. The master’s degree provides a foundation in advanced clinical sciences. Students may specialize in two areas of concentration: Reproductive Laboratory Sciences and Hematology/Transplantation Science.

For additional information, refer to: www.mc.uky.edu/clm/. Or contact: Linda S. Gorman, Ph.D., NCA (CLS) 900 S. Limestone Street 126GCTW Building Lexington, KY 40536-0200 (859) 323-1100 ext. 8-0855 lsgorm0@uky.edu

B.H.S. with a major in CLINICAL LEADERSHIP AND MANAGEMENT

Graduates of the Clinical Leadership and Management program earn a Bachelor of Health Sciences (B.H.S.) degree. The purpose of the program is to provide health care professionals with formal academic education and skills training needed to prepare them for leadership and management roles and responsibilities. The program offers a career ladder for professional advancement in the health sciences. Program graduates will be prepared to assume greater responsibilities at their current jobs, be better qualified for job promotions, and be positioned for graduate studies.

This program is intended for health care professionals who have an associate degree in a health-related discipline and at least one year of post-degree employment experience in a healthcare setting.

Historically, there have been limited educational options for associate degree trained health professionals who are interested in pursuing a baccalaureate degree in Kentucky. This degree completion program accommodates transfer students for many allied health disciplines including, but not limited to: radiological technology, respiratory therapy, dental hygiene, clinical laboratory technicians, and nursing. The program provides accessible course offerings for non-traditional students who may require evening and part-time classes. It is anticipated that graduates of the B.H.S. program in Clinical Leadership and Management will benefit from advanced knowledge and skills which will enhance their job/career, work environment and quality of life. Program graduates may also benefit their employers, health care facility, and patients.

For additional information, go to: www.mc.uky.edu/clm/.

Application Process and Requirements

The admissions process begins with an application to the University of Kentucky by December 1 for spring enrollment and August 1 for fall enrollment. Application must also be made directly to the CLM program. The CLM program uses rolling admissions once applicants are accepted by the University as a degree seeking student. Criteria for admission to the program includes: an Associate Degree, 2.0 GPA, and one year of work experience in a health related area. Academic advising and information about admissions is available from:

Office of Student Affairs College of Health Sciences University of Kentucky 111 Charles T. Wetherington Building Lexington, KY 40536-0200

Or contact Marilyn Underwood, academic advisor, at (859) 323-1100 ext. 80546 or 80473; mleste00@uky.edu. All transfer credits to meet CLM program core courses and electives must receive prior approval by the CLM Program Director. For additional information about program content, e-mail: elizabethschulman@uky.edu.

The Curriculum

A total of 120 credits (including 39 program credits as listed below, University Studies Program and graduation requirements) are required to receive the Bachelor of Health Sciences degree from the University of Kentucky. The core curriculum of 39 credits includes:

HSM 241 Health and Medical Care Delivery Systems .................................................... 3
CLM 405 Epidemiology and Biostatistics .................................................. 3
CLM 350 Health Policy and Politics .................................................. 3
CLM 351 Health Services Administration ............................................ 3
CLM 354 Health Law ................................................................. 3
CLM 355 Financial Management of Health Care Institutions ......................... 3
CLM 452 Community and Institutional Planning for Health Services Delivery .................................................................................. 3
AHP 840 Ethics in Health Practice ..................................................... 2
CLM 444 Leadership and Human Resource Management ..................................... 3
CLM 445 Quality and Productivity Improvement and Evaluation ...................... 3
*HSE 595 Directed Studies .................................................. 4
Upper Division Electives ................................................................. 6
*Capstone Project

For More Information

For additional information, access the Web site above, e-mail individual program faculty, or call the advisors in the Office of Student Affairs at (859) 323-1100 ext. 80473.

DEPARTMENT OF REHABILITATION SCIENCES

B.H.S. with a major in COMMUNICATION DISORDERS

In keeping with the standards of the American Speech-Language-Hearing Association, the undergraduate program in communication disorders is considered to be a preprofessional degree program. In order to meet Kentucky licensure and American Speech-Language-Hearing Association certification requirements, it is necessary to complete the master’s degree. Students pursuing this program should plan on six years to complete both the Bachelor of
Health Science and Master of Science programs.

Admission to the Professional Program

The Communication Disorders program has selective admissions. Applicants must have completed a minimum of 42 credit hours at the time of application. Students are admitted to the professional program on a competitive basis. Admission is based on cumulative grade-point average, ACT or SAT scores, and relevant experiences. Applicants must submit a letter of application and three references. New students are admitted only for the fall semester. The application deadline is February 1.

University Studies Requirements

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Social Sciences

PSY 100 Introduction to Psychology ............................ 4
plus one other course from University Studies
social sciences list .......................................................... 3

Graduation Writing Requirement

CD 410, CD 482 and CD 483 fulfill the Graduation Writing Requirement.

Graduation Writing Requirement Hours: ........................ 3

Premajor Requirements Hours

PSY 100 Introduction to Psychology ............................ 4
plus completion of 42 credit hours or more at time of application

Subtotal: Premajor Hours . minimum of 46

Related Studies Requirement Hours

Choose one of the following:

LIN 211 Introduction to Linguistics I ............................ 3
LIN 212 Introduction to Linguistics II ............................ 3
LIN 310 American English ................................. 3
LIN 317 Language and Society (Subtitle required) ....... 3
LIN 318 Semantics and Pragmatics ............................ 3
LIN 319 Historical Linguistics ................................. 3

Subtotal: Related Studies Hours ................................. 3

Major Requirements Hours

CD 277 Introduction to Communication Disorders .......... 3
CD 285 Applied Phonetics ........................................ 3
CD 378 Anatomy and Physiology of Speech .................. 3
CD 410 Language Development Through the Lifespan .. 3
CD 481 Clinical Experience in Communication Disorders ** 3
CD 482 Clinical Management of Communication Disorders I .......................... 3
CD 483 Clinical Management of Communication Disorders II ........................................... 3
CD 591 Aural Rehabilitation ..................................... 3
CD 571 Neural Bases of Speech, Language, and Hearing ........ 3
CD 621 Alternative and Augmentative Communication ...................................................... 3
CD 648 Language Disorders in School-Age Populations ....... 3
CD 661 Phonological Development and Disorders ........... 3
CD 670 Voice Disorders ........................................... 3
CD 674 Disorders of Fluency .................................... 3
CD 677 Aphasia and Related Disorders ........................ 3
CD 701 Research Methods in Communication Disorders .... 3
CD 710 Cognitive Communication Disorders .................. 3
CD 744 Adult Swallowing and Motor Speech Disorders ....... 3
CD 745 Pediatric Feeding and Motor Speech Disorders ..... 3

Subtotal: Major Hours ............................................. 42

Electives

CD 520 Introduction to Manual Communication ............ 2
Electives should be chosen by the student to lead to the minimum total of 120 hours required for graduation.

TOTAL HOURS: ................................................. 120

Curriculum

Junior Year

Fall Semester

*CD 277 Introduction to Communication Disorders .......................... 3
CD 285 Applied Phonetics ........................................ 3
CD 378 Anatomy and Physiology of Speech .................. 3

Spring Semester

CD 402 Speech and Hearing Science ............................ 3
CD 410 Language Development Through the Lifespan .. 3
CD 484 Introduction to Diagnostic Procedures in
Speech-Language Pathology ...................................... 3

Senior Year

Fall Semester

**CD 481 Clinical Experience in
Communication Disorders .......................................... 3
CD 482 Clinical Management of
Communication Disorders I ................................. 3
CD 571 Neural Bases of Speech, Language, and Hearing ........ 3

Spring Semester

**CD 481 Clinical Experience in
Communication Disorders .......................................... 3
CD 483 Clinical Management of
Communication Disorders II ...................................... 3
CD 591 Aural Rehabilitation ..................................... 3
*May be taken as a pre-Communication Disorders
course prior to the junior year
**Half of senior students take CD 481 during fall semester; the remaining half take course during spring semester.

Certification and the Master’s Degree

Upon completion of the undergraduate degree and with admission to the master’s program, students complete the following courses for certification and the master’s degree.

Course Requirements Hours

CD 621 Alternative and Augmentative Communication ...................................................... 3
CD 648 Language Disorders in School-Age Populations .................................................. 3
CD 661 Phonological Development and Disorders ...................................................... 3
CD 670 Voice Disorders ........................................... 3
CD 674 Disorders of Fluency .................................... 3
CD 677 Aphasia and Related Disorders ........................................... 3
CD 701 Research Methods in Communication Disorders .................................................. 3
CD 710 Cognitive Communication Disorders ...................................................... 3
CD 744 Adult Swallowing and
Motor Speech Disorders ........................................... 3
CD 745 Pediatric Feeding and
Motor Speech Disorders ........................................... 3

Total Credit Hours .................................................. 30

The M.S. in Communication Disorders consists of 30 didactic hours plus optional thesis or comprehensive examinations.

ASHA Certification

Applicants wishing to meet American Speech-Language-Hearing Association certification requirements must also complete the following additional clinical orientation, clinical practicum and clinical rotation experiences plus 2 hours of graduate-level electives, and optional 1-6 hours in thesis or comprehensive exams:

CD 654 Clinical Orientation
Communication Disorders .................................................................. 3
CD 657 Clinical Practicum in
Speech-Language Pathology ................................................. 6
CD 659 Clinical Rotation in
Speech-Language Pathology ................................................. 21-30

Students completing the thesis option also complete the following:

CD 748 Master’s Thesis Research ........................................ 0
CD 768 Residence Credit for the Master’s Degree ............................ 1-6

Physical Therapy Program

Beginning in August 2006, the Physical Therapy Program at the University of Kentucky transitioned to the professional (entry-level) Doctor of Physical Therapy (DPT). The College of Health Sciences will continue to offer a Pre-Physical Therapy option for freshmen and sophomores. This will allow students to receive orientation and advising from within the college prior to selecting a major to obtain their bachelor’s degree. Once accepted, the PT program will take three years to complete and result in the awarding of the DPT. For information on the program, please visit our Web site at www.mc.uky.edu/PT. All incoming students who have a significant interest in Physical Therapy are encouraged to apply to the College of Health Sciences as a Pre-Physical Therapy student.

Rural Health Center

In 1992, the College of Health Sciences initiated an expansion program in physical therapy based at the Center for Rural Health in Hazard, Kentucky. This professional program at the Center for Rural Health is conducted in parallel with the Lexington campus program.

For more information about the Physical Therapy Program at either the Lexington location or the Hazard location, contact:

Physical Therapy Program
900 S. Limestone Street
Room 204
University of Kentucky
Lexington, KY 40536-0200
(859) 323-1100 ext. 8-0494
www.mc.uky.edu/PT/
Pamela Bates, M.S.W.
Student Services Coordinator
UK Center for Rural Health
750 Morton Blvd.
Hazard, KY 41701
GRADUATE DEGREES IN HEALTH SCIENCES

Master of Science in Athletic Training

The master’s degree program in Athletic Training (AT) is designed to accommodate both NATA certified athletic trainers and NATA “certification eligible” athletic trainers. Course work and clinical experiences are designed to develop skills necessary to conduct research and increase proficiency in sports injury prevention, treatment, and rehabilitation. It is a goal that graduates become: critical consumers of research and accepted clinical practices, advanced health care providers, and leaders in the clinical, educational, and research endeavors of the profession.

For more information, contact:

Dr. Carl Mattacola
Division of Athletic Training
900 S. Limestone St., Room 206
210E CTW Building
University of Kentucky
Lexington, KY 40536-0200
(859) 323-1100 ext. 8-0860
e-mail: carlmat@uky.edu
www.mc.uky.edu/Athletic_training

Graduate Certificate in Reproductive Laboratory Science

The College offers a Graduate Certificate in Reproductive Laboratory Science. For more information, contact:

Doris J. Baker, Ph.D., Director
Reproductive Laboratory Sciences
900 S. Limestone St., Room 126E
University of Kentucky
Lexington, KY 40536-0200
(859) 323-1100 ext. 8-0854
e-mail: dbake0@uky.edu
www.mc.uky.edu/cls/rls/certificate.html

Master of Science in Physical Therapy

The Division of Physical Therapy offers the Master of Science degree to qualified graduate students that have already obtained a professional physical therapy degree. The Master of Science in Physical Therapy degree with both thesis (Plan A) and non-thesis (Plan B) options is offered. Plan A is designed as an advanced degree sequence involving an area of specialization in physical therapy practice and clinical research and requires the completion of a joint research project resulting in a thesis. Plan B is designed for the graduate physical therapist to further his or her knowledge in physical therapy practice and clinical research and requires the completion of a joint research project rather than the individual project and thesis. Graduates of the M.S. program will be prepared for advanced clinical practice in their selected area, able to conduct and report research, have experience in academic and clinical teaching and will be prepared to assume a leadership role in the profession. The intensity and depth of the course work will also prepare the student for work towards a doctoral degree if they so desire. For further information, contact:

Director of Graduate Studies
Physical Therapy Division
900 S. Limestone St., Room 204
University of Kentucky
Lexington, KY 40536-0200
(859) 323-1100 ext. 8-0494

Master of Science in Physician Assistant Studies

Criteria for Admission

All applicants must have taken the Graduate Record Examination (GRE) within the last five years. Official scores of the verbal, quantitative and analytical portions of the GRE must be submitted with application.

All applicants must hold a baccalaureate degree with a minimum GPA of 3.0 accredited college or university. Applicants must have earned a C grade or better in the following prerequisite courses:

Prerequisite Courses

1 semester of medical terminology
1 semester of human physiology
1 semester of human anatomy
1 semester of medical terminology

Letters of Recommendation

Three (3) letters of recommendation (from academic and/or health care professionals) must be submitted from persons familiar with the applicant (for at least one year) and his/her professional goals.

Commitment

Applicants must demonstrate an understanding of and commitment to the role and responsibilities of a physician assistant.

Admission Essays

Applicants must submit an Admissions Essay according to the directions of the application for admission. The writing sample must be of graduate level quality and reflect the applicant’s commitment to primary care.

Basic Life Support

Proof of current American Heart Association certification of basic life support must be submitted at the time of interview and certification must be maintained throughout the program.

Technical Standards

All applicants must comply with the Technical Standards of the Physician Assistant Studies Program as established by the College of Health Sciences.

Interview

Competitive applicants who have complete files and who meet the minimum entrance requirements as set forth above will be granted an interview.

Health Care Experience
Health care experience is preferred, but not required.

For further information, contact:

**Physician Assistant Studies**
900 S. Limestone St.
University of Kentucky
Lexington, KY 40536-0200
(859) 323-1100 ext. 8-0492
www.mc.uky.edu/pa

**Physician Assistant Program – Morehead, Kentucky**

The College of Health Sciences offers an extension of the UK Physician Assistant Studies Program in Morehead, Kentucky. This professional program conducts selective admissions during the summer semester each year. The program selectively admits students from the 32 counties of eastern Kentucky, or students with a special interest in rural health. For information on eligibility requirements and applications, please contact:

**Carla Terry**
Student Affairs Officer
Physician Assistant Program
Reed Hall 430
Box 1340
Morehead, KY 40351-1689
(606) 783-2636

**Master of Science in Radiological Medical Physics**

This program option trains professionals involved with the application of ionizing and nonionizing radiation to the diagnosis and treatment of disease. Such individuals plan radiation treatments for cancer patients, measure output from radiation sources, calibrate and evaluate instrumentation, design radiation facilities, and control medical radiation hazards.

For further information about this program option, contact:

**Division of Radiation Sciences**
900 S. Limestone St., Room 208
University of Kentucky
Lexington, KY 40536-0200
(859) 323-1100 ext. 8-0847
e-mail: rcchri1@email.uky.edu
The Honors Program at UK serves an important function in the University’s commitment to excellence in undergraduate education. Through its special curriculum and related academic activities, the Program provides an unusual course of instruction for outstanding, highly motivated students.

Selection of Honors Students

Because the Honors Program seeks students of demonstrated high academic promise, admission to Honors is competitive. Upon admission to the University of Kentucky, a student must complete the application form for the Honors Program. Entering students ideally have an outstanding high school grade-point average (3.5 unweighted GPA or better, as demonstrated by transcript of through at least the first half of senior year) and a documented composite score of 28 or above on the ACT or 1240 or above on the SAT. The Admissions Committee considers all aspects of an applicant’s record; a student’s test scores and GPA are only two of the factors considered. The Admissions Committee also considers the academic rigor of high school courses the applicant has taken. In addition, the Admissions Committee places great weight on the strength of the application essays, as well as the evidence they provide of motivation to accept the challenges of Honors and contribute to the program.

Students whose academic performance may vary (high GPA and lower test scores, for example) or who have talents and motivation that are not reflected in standardized testing procedures are invited to make their best case for admission to the Honors Program and to solicit recommendations from supportive teachers or supervisors.

Upper-division students at UK or transfer students with one semester or more of academic study at a college or university may apply to the Honors Program. They submit a copy of their college transcripts along with the materials requested of first-year students. All applicants must demonstrate strong academic performance at the college level (3.0 GPA or better).

The Honors Curriculum

The Honors curriculum is designed to acquaint students with major ideas and intellectual developments which have shaped the world around them. The five multi-disciplinary tracks allow students the opportunity to intellectually explore everything from Plato’s Republic to the problem of hunger to the ethical issues raised by the use of nanotechnology to the nature of violence.

The colloquia are taught as interdisciplinary, small-format seminars. Faculty emphasize class discussion, special projects, and regular writing (free-writing, quizzes, essays, exams, and journals) to develop students’ critical thinking and written and oral communication skills and encourage participatory learning styles.

Honors students are expected to maintain good academic standing to continue in the program; normally this is a cumulative GPA of 3.0 or better. In circumstances when academic performance drops below this level, the Director of the Honors Program will consult with the student to determine whether and by what means the student may restore performance to an acceptable level and may institute a period of probation and review.

During the junior and senior years students complete an independent project – a work of research or artistic expression, in collaboration with a faculty scholar/researcher – affording them the chance to identify a challenging topic and to design, carry out, and present their individual work. Upperclass students also enroll in a highly specialized colloquium called a proseminar, which is taught by award-winning UK faculty in a variety of disciplines.

University Studies Requirements

The Honors colloquia offer a special means of meeting the University Writing Requirement and University Studies Program Requirements. Students who complete two colloquia satisfy the USP Writing Requirement. Students who complete three colloquia satisfy the Graduation Writing Requirement. Each Honors course also fulfills a USP humanities, social science, natural science, or inference credit requirement, which depend on the particular course and section.

Graduating with Honors in the Program

To graduate with a Certificate of Honors in the Honors Program and have this designation on the final UK transcript and diploma, students must complete fifteen credit hours of Honors courses, completing one of the tracks and, as needed, one or two upper-division courses from HON 301, 395, 398, a department or college honors track, the Gaines Program, the Undergraduate Research Program or another independent research project or independent study. Students must also maintain a cumulative GPA of 3.0 or better.

Special Opportunities

Students in the Honors Program have many opportunities, both in and out of the classroom, to develop and demonstrate academic excellence. The small class size and method of instruction in the colloquia foster active learning. Informal conferences, special speakers, trips, and workshops allow students to explore topics and issues not regularly considered within University departmental offerings.

Students in the program may elect to live in Boyd and Patterson Halls, study and community oriented, co-ed Honors residence halls equipped with a computer lab, seminar rooms, and library.

Other social, service, and cultural activities organized by and for Honors students include the Honors Program Student Advisory Council or HPSC (social and service activities), and JAR, the campus literary magazine published by Honors Program students. Students may also participate in the Journal Project, for which they keep a journal during their undergraduate career, sharing the journal with a staff member, administrator, or faculty member who volunteers as an advisor.

Honors students in good standing are eligible for a number of special grants and scholarships during and at the conclusion of their undergraduate career. These include scholarships based on financial need, grants to support independent research conducted in the U.S. or abroad, scholarships to support study travel for members of the Journal Project, the Diachun Award for students continuing studies in graduate school, and several other literary, service, and book awards.

Benefits

The greatest benefits Honors Program students enjoy are intensified intellectual development and a heightened personal awareness of the individual’s place in his or her culture. A high percentage of graduates of the Honors Program enter graduate or professional schools, and move on to successful careers.

How To Apply

For an application, contact:

Director, Honors Program
1153 Patterson Office Tower
University of Kentucky
Lexington, KY 40506-0027
(859) 257-3111
e-mail: HONPROG@uky.edu
www.uky.edu/Honors/
fax: (859) 257-6428

The application deadline is January 15.
Contact the Honors Program for more information.
The Law Building

The College of Law occupies a handsome building of contemporary design located on the central campus. The building was planned to provide all of the special physical facilities required for a modern legal education. Facilities include “smart” classrooms; a model courtroom-auditorium; the Law Library; faculty and staff offices; offices for the Journal of Natural Resources and Environmental Law, the Kentucky Law Journal, the Moot Court Board, the Trial Advocacy Board, the Student Bar Association and other law student organizations; and offices for visiting scholars who come to the College of Law for research and study.

Other Facilities and Information

Since 1912 the college has published the Kentucky Law Journal, a quarterly periodical and the tenth oldest American law review. This journal is published by a student staff, and election to the staff is based on high academic achievement and proven ability to write and conduct research. Articles, notes, and comments written by legal scholars, attorneys, and students are published. The Kentucky Law Journal is subscribed to by members of the bar as well as all leading domestic and foreign libraries.

The Mineral Law Center was established in 1983 to serve as an objective and nonpartisan research center for energy and environmental-related legal issues and to further the teaching and service missions of the college. The center currently publishes the Journal of Natural Resources and Environmental Law, and is home to the Eastern Mineral Law Foundation.

Practical training in trial and appellate advocacy is provided in litigation skills and clinical courses, and in co-curricular moot court and trial and appellate advocacy programs. Teams representing the college compete annually in various trial advocacy and appellate advocacy competitions.

Instruction in legal research and writing is available to all students, not only in required courses designed for this purpose, but also in a program of seminars, drafting projects and opportunities for independent study. The college operates an externship program to provide students with a variety of clinical learning experiences. In 1997, the College of Law opened a Civil Law Clinic across Limestone Street from the College, giving students the opportunity to represent low-income individuals on a variety of legal matters.

Requirements for Admission

In addition to the general requirements for admission to the University, an applicant for admission to the College of Law must meet the following requirements:

1. The applicant must have received a bachelor’s degree from an accredited institution.

APPLICATION DEADLINES FOR COLLEGE OF LAW

<table>
<thead>
<tr>
<th>First-Year Students</th>
<th>Transfer Students</th>
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<tbody>
<tr>
<td><strong>Law Application:</strong></td>
<td><strong>Law Application, transcript(s), credentials:</strong></td>
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<tr>
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<td>March 31</td>
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2. The applicant must have taken the Law School Admission Test.

3. The applicant must have registered with the Law School Data Assembly Service and furnished the necessary transcripts which such registration requires.

In addition, the College of Law requires that applicants have taken the Law School Admission Test within three (3) years of the date he or she will matriculate.

Admissions Committee Consideration

The College of Law Admissions Committee considers and makes recommendations to the Dean of the College of Law on an applicant’s undergraduate grade record, the Law School Admission Test Score, writing ability, and other factors indicative of the applicant’s aptitude for law study. The Committee examines with particular care the grade average for the most recent semesters of undergraduate study, recommendations of faculty, the nature and difficulty of course work attempted in prelaw study, undergraduate extracurricular activities, and work experience. The Committee also considers post-baccalaureate experiences where such experiences, in the Committee’s determination, indicate a development of aptitude for the study of law. The Committee will review the file of an applicant to determine whether personal, academic, professional, or intellectual circumstances tend to discount low academic or LSAT scores and give evidence of both the capability and motivation to do successful law school work. The Committee may also consider factors which bear on the provision of adequate legal services to all segments of Kentucky.

In its decision making, the Committee works with written materials in the applicant’s file. There is no interview and applicants are urged to provide in writing whatever they want the Committee to consider. The Committee welcomes letters of recommendation which speak

The Faculty

The program of the college is conducted by a full-time faculty and staff composed of 31 professors and 25 library and support personnel. They are assisted by a number of part-time and adjunct professors.

The Library

The college maintains a carefully selected law library collection of over 350,000 volumes, one of the larger law libraries in the South. It is housed in the Law Building and includes a comprehensive collection of American case and statutory materials. It contains more than 40,000 treatises and textbooks, all major legal reference works, and over 3,400 annual legal publications.

Since its establishment in 1908, the College of Law has provided programs of legal instruction, research, and service to the state and to the bar. The College of Law program is designed so that its graduates can practice their profession on a local, regional, or national level. The college is accredited by all agencies which establish standards for law schools, including the Association of American Law Schools, the American Bar Association and the bar admission authorities in all states.

The instructional program consists of a three-year general law curriculum designed to be completed in six consecutive 16-week semesters or in five semesters and two summer sessions. The program is arranged to assist each student in acquiring the skills required for the solution of modern legal problems; to make certain that he or she has an appreciation for and understanding of the legal, social, and political institutions on which the administration of justice rests; and to prepare him or her for the policy and ethical decisions which must be made in practicing law.

Allan W. Vestal, J.D., is Dean of the College of Law; Harold R. Weinberg, J.D., Michael P. Healy, J.D., Susan Bybee Steele, J.D., and Drusilla Vansant Bakert, J.D., are Associate Deans.

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The Law Building

The College of Law occupies a handsome building of contemporary design located on the central campus. The building was planned to provide all of the special physical facilities required for a modern legal education. Facilities include “smart” classrooms; a model courtroom-auditorium; the Law Library; faculty and staff offices; offices for the Journal of Natural Resources and Environmental Law, the Kentucky Law Journal, the Moot Court Board, the Trial Advocacy Board, the Student Bar Association and other law student organizations; and offices for visiting scholars who come to the College of Law for research and study.

Other Facilities and Information

Since 1912 the college has published the Kentucky Law Journal, a quarterly periodical and the tenth oldest American law review. This journal is published by a student staff, and election to the staff is based on high academic achievement and proven ability to write and conduct research. Articles, notes, and comments written by legal scholars, attorneys, and students are published. The Kentucky Law Journal is subscribed to by members of the bar as well as all leading domestic and foreign libraries.

The Mineral Law Center was established in 1983 to serve as an objective and nonpartisan research center for energy and environmental-related legal issues and to further the teaching and service missions of the college. The center currently publishes the Journal of Natural Resources and Environmental Law, and is home to the Eastern Mineral Law Foundation.

Practical training in trial and appellate advocacy is provided in litigation skills and clinical courses, and in co-curricular moot court and trial and appellate advocacy programs. Teams representing the college compete annually in various trial advocacy and appellate advocacy competitions.

Instruction in legal research and writing is available to all students, not only in required courses designed for this purpose, but also in a program of seminars, drafting projects and opportunities for independent study. The college operates an externship program to provide students with a variety of clinical learning experiences. In 1997, the College of Law opened a Civil Law Clinic across Limestone Street from the College, giving students the opportunity to represent low-income individuals on a variety of legal matters.

Requirements for Admission

In addition to the general requirements for admission to the University, an applicant for admission to the College of Law must meet the following requirements:

1. The applicant must have received a bachelor’s degree from an accredited institution.

APPLICATION DEADLINES FOR COLLEGE OF LAW

<table>
<thead>
<tr>
<th>First-Year Students</th>
<th>Transfer Students</th>
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<tbody>
<tr>
<td><strong>Law Application:</strong></td>
<td><strong>Law Application, transcript(s), credentials:</strong></td>
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<td>Fall</td>
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<td>March 31</td>
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<td>LSDAS Report:</td>
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<td>Dec. 1</td>
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<td></td>
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<td></td>
<td>May 15</td>
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</tbody>
</table>

2. The applicant must have taken the Law School Admission Test.

3. The applicant must have registered with the Law School Data Assembly Service and furnished the necessary transcripts which such registration requires.

In addition, the College of Law requires that applicants have taken the Law School Admission Test within three (3) years of the date he or she will matriculate.

Admissions Committee Consideration

The College of Law Admissions Committee considers and makes recommendations to the Dean of the College of Law on an applicant’s undergraduate grade record, the Law School Admission Test Score, writing ability, and other factors indicative of the applicant’s aptitude for law study. The Committee examines with particular care the grade average for the most recent semesters of undergraduate study, recommendations of faculty, the nature and difficulty of course work attempted in prelaw study, undergraduate extracurricular activities, and work experience. The Committee also considers post-baccalaureate experiences where such experiences, in the Committee’s determination, indicate a development of aptitude for the study of law. The Committee will review the file of an applicant to determine whether personal, academic, professional, or intellectual circumstances tend to discount low academic or LSAT scores and give evidence of both the capability and motivation to do successful law school work. The Committee may also consider factors which bear on the provision of adequate legal services to all segments of Kentucky.

In its decision making, the Committee works with written materials in the applicant’s file. There is no interview and applicants are urged to provide in writing whatever they want the Committee to consider. The Committee welcomes letters of recommendation which speak
to ability, and the Committee will consider any other material the applicant thinks important enough to include.

Admission of Transfer Students

At a minimum, applicants for transfer from a law school should present a 2.7 average on at least 25 hours of law school work at a school accredited by the American Bar Association or the Association of American Law Schools. The Admissions Committee will consider the applicant’s law school record as well as all factors the Committee considers in an application for the entering class.

Procedure for Application

Application for admission is initiated by submitting the following to the Office of the Dean, College of Law: a completed UK law application form, which may be obtained from that office, and a $50 check made payable to the University of Kentucky College of Law.

The Law School Admissions Test (LSAT), administered by the Law School Admission Council (LSAC), is given four times each year at testing centers throughout the country according to a schedule of dates and places published by the LSAC.

In addition to administering the LSAT, LSAC provides a transcript analysis and report for applicants, known as the Law School Data Assembly Service (LSDAS). All applicants are required to register directly with LSAC for this service, which is done at the time one applies to take the LSAT. Transcripts of prelaw work should be sent to LSAC rather than the University.

The LSAT and the LSDAS registration forms are available from LSAC and from the Dean’s Office in the College of Law.

Submission Dates and Deadlines

Because the Admissions Committee considers applications as they are completed, all students are urged to apply as early as possible. March 1 of the year in which an applicant expects to enter law school for the fall semester is the priority deadline for receipt of the application form. March 31 is the priority deadline for receipt of all supplementary materials, including LSAT scores and the LSDAS report. Applicants are urged to take the LSAT in June, October or December. The LSAT given in February is the last examination which will be accepted by the Admissions Committee. Applicants are urged to send transcripts to LSDAS no later than January 1. If transcripts are not on file with LSDAS by February 1, there is a substantial possibility that an LSDAS report will not arrive at the Office of Admissions before the March 31 priority deadline for receipt of materials.

College of Law Withdrawal Policy

All students enrolled in the College of Law are expected to complete their degree requirements without interruption other than for regularly scheduled vacation periods. It is expected that students will complete all courses or seminars in which they are enrolled. Rules specific to withdrawal from the College of Law exist. Contact the College of Law for complete information.

PRELEGAL STUDY

While a broad, liberal arts education is generally considered to be an excellent preparation for law school, there is no fixed, comprehensive prelaw curriculum prescribed by this or any other American law school.

This fact is very important, and its implications should not be misunderstood. American legal education is not a graduate program of advanced work in a specialized course of study beginning in college; it is not a technical or scientific training that builds upon a specific preparation in basic techniques and knowledge acquired in undergraduate school. Legal education is a professional education which requires that each student develop three fundamental capacities (described below) in the prelegal experience. These accomplishments may be obtained in a variety of learning ways and academic disciplines.

First, because the basic working tools of lawyers are written and spoken words, the beginning law student must have thorough preparation in the use of the language. The importance of this requirement cannot be overstated. A fundamental knowledge of grammar and syntax, a good vocabulary, an ability to read rapidly with insight and understanding, and a facility for expressing ideas with clarity and order are all essential to success in the study and practice of law. Any prelaw student who is deficient in these abilities should immediately take additional courses in English literature and composition, seek specialized remedial assistance, and exert all efforts towards language mastery.

Second, because the primary working arenas of lawyers are social, economic, and political communities, the beginning law student must obtain a comprehensive, exploratory undergraduate experience. The law student should have a good knowledge of history (especially English and American traditions), of governmental and political processes, of social and cultural patterns and the interactions that create them, and of the ethical and spiritual credos by which men and women live.

Third, because the fundamental techniques of legally trained persons are careful ordering of facts and events, conceptual analysis and synthesis, and effective advocacy, the prelaw student should pursue a degree program in which he or she will learn to think clearly, will form sound study habits, and will have the opportunity to master the methodology and knowledge of a particular field under the guidance of experienced instructors. Generally, any undergraduate program can satisfy this requirement and help meet the other two needs outlined above. Prelaw students with definite career objectives in mind may wish to prepare for those objectives by majoring in appropriate subjects, for example: business or economics, government or political science, English literature, engineering, or the natural sciences.

Experience indicates that the poorest preparation for legal study lies in inadequate development of language skills, lack of historical and social awareness and appreciation, and failure to achieve the mastery of any academic discipline that overcomes the shallowness of vague generalization. Therefore, the prescription from this law school to the prelaw student is that he or she should invest in the broadest, deepest undergraduate education open to him or her rather than in some predetermined curriculum.

For additional information, students should obtain the current Official Guide to U.S. Law Schools, published and prepared by the Law School Admission Council and the Association of American Law Schools. This yearly publication contains material on the law and lawyers, prelaw preparation, applying to law schools, and the study of law, together with information on most American law schools. Students may order this when they register for the LSAT and LSDAS.

THE DEGREE OF JURIS DOCTOR

Students admitted to the College of Law are eligible for the degree of Juris Doctor (J.D.) upon completion of a minimum of three academic years (six full-time semesters or equivalent) of residence and 90 semester hours of courses in the College of Law with a grade-point average of at least 2.0.

All courses in the first year of law study are required as is a course in professional responsibility and an upper division writing course.

Because the study of law at the University of Kentucky is a full-time pursuit, all law students are expected to carry a full academic program (15 semester hours) and to devote their full time to the study of law. Second and third year students may work 15 hours per week for local legal employers.

For the College of Law Bulletin, interested students may stop by the Dean’s Office, 209 College of Law, University of Kentucky, Lexington, KY 40506-0048; or order the Bulletin online at: www.uky.edu/Law/. For specific information about the courses and policies of the College of Law, students should refer to its Bulletin, the college’s Web site, or contact the Associate Dean for Academic Affairs at the College of Law, (859) 257-1678. Candidates may contact the Associate Dean for Admissions at (859) 257-1678; e-mail: dbakert@email.uky.edu.
The College of Medicine offers a four-year curriculum leading to a degree of Doctor of Medicine (M.D.) and training for postdoctoral and research fellows. The University of Kentucky Hospital offers accredited postdoctoral training for interns and residents.

A curriculum in medicine has been part of the University of Kentucky since 1960. The College of Medicine is responsible for providing its students with training in related basic sciences and with clinical experience under supervision in the University of Kentucky Hospital and other affiliated facilities.

As part of the Medical Center – which also includes the University of Kentucky Hospital and the Colleges of Dentistry, Health Sciences, Nursing, Pharmacy, and Public Health – the College of Medicine strives for programs of the highest possible quality. This means selecting the best possible student body, creating an environment which fosters learning, investigation, and clinical excellence, and acquiring and keeping talented faculty and administrative staffs.

**ACADEMIC PREPARATION FOR THE STUDY OF MEDICINE**

Medical science and practice involve complex relationships between physical, biological, psychological, cultural, and environmental aspects of human behavior. In the preparation for medical school, fundamental undergraduate college training in biology, chemistry, physics and English is essential. Minimal requirements are satisfied with the equivalent of two semesters of studies in physics; two semesters in the biological sciences; four semesters in chemistry, including organic chemistry; and at least one year of English with emphasis on communication skills such as reading, writing, and speaking.

Courses in each of the science areas must include laboratory work. Students are encouraged to follow special interests which they may have in philosophy, psychology, literature, social sciences, or the fine arts.

Students are urged to demonstrate a capacity for advanced work through concentrated study of at least one subject in a major area by completing courses beyond the introductory level.

**REQUIREMENTS FOR ADMISSION**

Candidates for admission to the College of Medicine, in addition to meeting general University requirements, must meet the prerequisites of the College of Medicine and be accepted by the Medical College Admissions Committee. Applicants will be required to have taken the Medical College Admission Test (MCAT) and to have completed a baccalaureate degree program at an accredited college or university.

**SELECTION CRITERIA**

In admitting students to the College of Medicine, the University endeavors to select students who show promise of becoming excellent future physicians. Applicants are judged on the basis of their total qualifications and in comparison with other applicants. As a state-supported school, the College of Medicine gives preference to qualified residents of Kentucky. Although well-qualified nonresidents may apply, preference is given to candidates with Kentucky ties.

Selection from among applicants who meet the general premedical educational requirements of the College of Medicine is based on a number of criteria. A high level of academic performance at the undergraduate level is extremely important. It is recognized, however, that a meaningful evaluation of student performance must consider many factors in addition to grades. For example, exposure to the health care profession is considered essential.

Scholastic aptitude as measured by the Medical College Admission Test also is considered.

Since the practice of medicine involves the physician in continual relationships with people – with patients, and with other members of the health care team – applicants are also judged according to premedical evaluations, the degree of their participation in campus and community activities and organizations, and the personal characteristics that they demonstrate. Friendliness, warmth, compassion, integrity, and commitment are all essential traits of the physician.

Often the physician’s ability to communicate effectively will determine the degree of success in the diagnosis and management of a patient’s health problem and in other professional activities. Thus, consideration is given to the communication skills demonstrated by each applicant. Communication is a two-way process and involves the ability to listen perceptively, as well as to speak and write clearly.

Because the practice of medicine and the life of the medical student require a great investment of effort and demand both time and energy, it is essential that a prospective medical student meet the Technical Standards of the College of Medicine detailed in the College of Medicine Bulletin or online at www.mc.uky.edu/med/admissions. Further, prospective applicants should be able to demonstrate that their motivation to study medicine is sufficiently strong to sustain him or her in the face of difficulties.

**STUDENT PROGRESS**

The Student Progress and Promotion Committee is charged with monitoring student progress throughout the curriculum. The committee regularly reviews each student’s performance and makes recommendations on such actions as graduation, promotion, remediation, dismissal, and leaves of absence. Final authority on all matters of student progress and promotion is vested in the Dean of the College of Medicine.

Students are responsible for conforming to all rules and regulations specified by the Behavioral Standards in Patient Care, Health Science Student Professional Behavior Code, the College of Medicine Honor Code, the “Technical Standards Related to Applicant Admission and Student Performance” detailed in the College of Medicine Bulletin, the academic standards established in the Student Promotion rules, and the Code of Student Rights and Responsibilities for all University of Kentucky students.

**COURSE DESCRIPTIONS**

Course listings for the College of Medicine may be found under the college according to departmental and area headings.

For specific information about programs in the College of Medicine, students should refer to The Graduate School Bulletin or the College of Medicine Bulletin.

**COMBINED MEDICAL AND GRADUATE STUDIES**

A medical student who wishes to work toward a combined medical and graduate degree (master’s or doctoral) may do so by enrolling both as a graduate student and as a medical student. Details of the combined degrees are available from basic science department chairpersons, the Associate Dean for Research and Basic Sciences, or the Office of Medical Education, College of Medicine.
Accreditation
The College of Nursing has had continuous accreditation since 1967. The baccalaureate degree curriculum offered by the College of Nursing is accredited by the Commission on Collegiate Nursing Education and approved by the Kentucky Board of Nursing.

Undergraduate Program in Nursing
The University of Kentucky grants the following degree in the College of Nursing:
• Bachelor of Science in Nursing

ADMISSION REQUIREMENTS
The College of Nursing enrollment is composed of four-year students, associate degree nursing graduates, and diploma nursing school graduates. Admission to the University does not guarantee admission to the College of Nursing. Preference is given to Kentucky residents.

Applicants must be in a state of good health enabling them to carry out the functions of the professional nurse. Routinely, each student will be required to obtain a rubella and rubeola titers, hepatitis B immunizations, and have an annual tuberculin test or chest x-ray.

The University of Kentucky will consider any applicant who demonstrates the ability to perform or to learn to perform the skills listed below. Applicants are not required to disclose the nature of any disability, but an applicant with questions about these technical requirements is strongly encouraged to discuss the issue with the dean for the particular program of study. If appropriate, and upon the request of the applicant, student or faculty, reasonable accommodations for a disability will be provided.

Students must possess aptitude, abilities, and skills in five areas:
• observation;
• communication;
• sensory and motor coordination and function;
• conceptualization, integration, and quantification; and,
• behavioral and social skills, abilities and aptitude.

Full details on these standards are available by contacting the College of Nursing.

Progression to upper-division is regulated so that the total number of full-time equivalents at the beginning of the junior year does not exceed 72.

Criteria for admission to the 4-year BSN program include:

1. Freshman Student:
   Students will be admitted as freshmen to a pre-nursing curriculum based on the following criteria:
   a) high school grade-point average of 2.5 or above on a 4.0 scale;
   b) meeting criteria for selective admission to the University of Kentucky (see the Undergraduate Admission section of this Bulletin for more information).

The University of Kentucky College of Nursing has not only been a building in which I attend classes. It has been a place for personal growth. During my four years in nursing school, I have learned that a career in nursing is not just about helping the sick, but it is truly about changing people’s lives. I feel honored to have been able to touch the lives of so many patients while in nursing school. I can think of no career more rewarding, more meaningful, than a career in nursing.

The College of Nursing has given its students the opportunity to explore the various fields within nursing by allowing students to rotate through different clinical areas including obstetrics, pediatrics, public health, psychiatry and critical care. The outstanding faculty at UK provides each student with individualized attention both in the classroom and clinical setting. With the comprehensive and cutting-edge education I received at the College of Nursing, I feel exceptionally prepared to enter into the nursing profession.

During my time in nursing school, I was also able to participate in several different organizations with the College of Nursing that further enriched my college experience. I served as Class President during which time I helped to plan graduation activities and raise money for local charities. I was also a member of the Nurse Scholars Program. This program gave me the unique opportunity to attend seminars featuring guest speakers from all realms of nursing, including research, advanced practice and patient perspectives. Additionally, I have also served as a Nursing Ambassador, which allowed me to be part of the recruiting process as well as welcome new students to UK. I feel that the combination of classroom, clinical and organizational experiences I have been involved with here at the College of Nursing have made for the well-rounded education that each of us hopes for upon entering college.

With a career in nursing, the possibilities are endless. The potential for growth as a bachelor’s prepare nurse is beyond anyone’s imagination as this field continues to expand and change. There is truly no limit to how big a nurse can dream.”

– Sonya Lichtenstein
Senior, May 2006

APPLICATION DEADLINE FOR COLLEGE OF NURSING
Deadline for all categories of students, regardless of term of enrollment, is:

March 1

After the deadline, eligible applicants will be accepted on a space-available basis. It is advisable to initiate the application process early; it is a two-step process, involving completion of a goal statement and a reference.
Seeking licensure as a Registered Nurse requires that applicants have no criminal history. In Kentucky, applicants who are convicted felons may be denied licensure. Cases are reviewed individually, upon application. Additionally, some clinical agencies require criminal background checks for students who might be placed there for a learning activity. The agency reserves the right to deny a student permission to meet clients, based on the results of the criminal background check.

If you have a criminal history, we urge you to contact the board of nursing in any state where you may seek licensure prior to enrolling in a nursing program. The regulations vary from state to state.

b) a grade of C or better in all required pre-nursing courses;

c) completion of an approved Medicaid Nurse Aide training program;

In addition, any or all of the following information may be requested as part of the application:

d) a writing exercise based on the criteria established by the College of Nursing;

e) two letters of reference from individuals who can assess potential for success (e.g., teacher, employer). Reference forms are available by calling (859) 323-5108.

f) an interview with members of the Admission and Progression Committee, or their designees.

2. Transfer Student:
a) for transfer students with less than 24 hours of college credit, meeting the criteria for entering freshmen and a minimum grade-point average of 2.5 on all college work attempted as computed by the Office of Admissions;

b) for transfer students with more than 24 hours of college credit, maintaining grade-point average of 2.5 on all college work attempted as computed by the Office of Admissions;

c) grades of C or better in all courses required for CON curriculum;

In addition, any or all of the following information may be requested as part of the application:

d) a writing exercise based on the criteria established by the College of Nursing;

e) two letters of reference from individuals who can assess potential for success (e.g., teacher, employer). Reference forms are available by calling (859) 323-5108.

f) completion of an approved Medicaid Nurse Aide training program;

g) an interview with members of the Admission and Progression Committee or their designees.

3. Students will be eligible to apply for readmission to the College of Nursing after suspension from the College when they meet criteria as stated in Section 2 a and b of this policy.

4. A student who is a registered nurse will be considered for admission to upper-division courses in the nursing program based on the following criteria:

a) the applicant must be a registered nurse licensed to practice in Kentucky;

b) an associate degree in nursing from a college accredited by one of the six regional academic accrediting associations with a minimum GPA of 2.5 on a scale of 4.0 in all course work attempted as computed by the Office of Admissions;*

c) a statement of academic and professional goals;

d) a letter of reference from a supervisor;

e) an interview with members of the Admission and Progression Committee or their designees.

*The registered nurse who is a graduate of a diploma program will be considered for admission after earning a minimum of 60 college credits which include:

- English – 6 semester credits
- Natural Sciences – 6 semester credits
- Social Sciences – 6 semester credits
- Humanities – 6 semester credits
- Nursing** – 28 semester credits

**Nursing credits may be earned from regionally accredited colleges by taking the courses or by taking the ACT-PEP tests. It is strongly recommended that applicants contact the Office of Student Services in the College of Nursing regarding the approved nursing ACT-PEP credits. All nursing courses taken in associate degree or diploma programs are considered lower-division courses and are not equivalent to upper-division courses in this program. The applicant must have at least a GPA of 2.5 on a scale of 4.0 in all college course work attempted as computed by the Office of Admissions, and must have satisfactorily completed the ACT-PEP tests which establish the nursing credits.

The application deadline for admission to the Nursing program for all categories of students is March 1.

Application for Admission

All applications and transcripts for admission must be submitted to the Office of Admissions according to the deadlines listed in the box above. RN applicants are considered for fall admission only. Transfer applicants will be evaluated for fall and spring admission, according to the deadlines listed. Those accepted for admission must notify the college within 30 days, in writing, of their intent to enroll. Late applicants will be considered for admission on a space-available basis.

Part-Time Study

Students who are working toward the completion of the B.S.N. degree on a part-time basis must plan a course of study with the appropriate College of Nursing personnel or committee and may not alter that plan without prior approval from the College of Nursing.

Candidates for the degree who do not complete all requirements within a seven-year period (five years for R.N. students) after admission will have their records reevaluated and may be required to repeat or take selected courses.

Financial Aid

The college has a few scholarships designated for Nursing students. Inquiries should be directed to the Office of Student Services, College of Nursing.

Students may also wish to pursue funds available through hospitals and other agencies that offer financial assistance in return for a work commitment.

Academic Advising

Students who are admitted to the College of Nursing are assigned to an advisor within the college. Curriculum plans are determined in the first semester of enrollment in the college and updated each semester. Questions regarding progression through the program may be directed to the Office of Student Services, College of Nursing.

DEGREE REQUIREMENTS

BACHELOR OF SCIENCE IN NURSING

To obtain a Bachelor of Science in Nursing, students must satisfy the University requirements for graduation, including University Studies, and obtain a 2.0 grade-point average in nursing in the courses listed below. A grade of C or better must be attained in all courses required in the nursing curriculum in order to proceed to the next clinical course or to graduate. A minimum of 120 credit hours is required for graduation.

University Studies Requirements

See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Inference-Logic

STA 200 Statistics: A Force in Human Judgment ............. 3

Social Sciences

PSY 100 Introduction to Psychology .......................... 4
Pre-major Requirements  
ANA 109 Anatomy and Physiology for Nursing I .... 3  
ANA 110 Anatomy and Physiology for Nursing II .... 3  
CHE 104 Introductory General Chemistry ............ 3  
CHE 108 Introduction to Inorganic, Organic and Biochemistry Without Laboratory ............... 3  
ENG 104 Writing: An Accelerated Foundational Course

Subtotal: Premajor Hours ................................. 23

Major Requirements  
NUR 860 Foundations for Professional Nursing ... 2  
NUR 861 Family Health Promotion and Communication Across the Lifespan .............. 8  
NUR 863 Professional Nursing Care Across the Lifespan ........................................ 8  
NUR 866 Pathopharmacology I ......................... 3  
NUR 870 Pathopharmacology II ......................... 3  
NUR 871 Family Centered Care of Adults With Common Health Problems .............. 7  
NUR 872 Clinical Reasoning: Quantitative, Qualitative and Epidemiological Approaches ........ 3  
NUR 873 Nursing Care of Childbearing, Childrearing Families .................................. 7  
NUR 880 Leadership/Management in Nursing Care Delivery ......................................... 3  
NUR 881 Psychiatric-Mental Health Nursing .......... 5  
NUR 883 Public Health Nursing ........................... 5  
NUR 884 Career Management in Nursing .......... 2  
NUR 885 High Acuity Nursing ............................ 5  
NUR 886 Synthesis of Clinical Knowledge for Nursing Practice ...................................... 6  
BIO 208 Principles of Microbiology .................... 3  
HSM 241 Health and Medical Care Delivery Systems ..................................................... 3  
NFS 212 Introductory Nutrition ............................ 3  
STA 200 Statistics: A Force in Human Judgment or
University Studies ........................................... 3  

Subtotal: Major Hours ....................................... 79

Electives
E lectives should be selected to complete the minimum 120 hours required for graduation.

Subtotal: Electives ............................................. minimum of 3  
TOTAL HOURS: ................................................. 120

Sample Curriculum
Baccalaureate Program  
(Four-year Students)

Freshman Year  
First Semester  
ANA 109 Anatomy and Physiology for Nursing I .... 3  
ENG 104 Writing: An Accelerated Foundational Course or University Studies ....................... 3-4  
PSY 100 Introduction to Psychology ................. 4  
University Studies ........................................... 3-4  

Second Semester  
ANA 110 Anatomy and Physiology for Nursing II .... 3  
CHE 108 Introduction to Inorganic, Organic and Biochemistry Without Laboratory ............... 3  
ENG 104 Writing: An Accelerated Foundational Course or University Studies ....................... 3-4  
University Studies Social Science ..................... 3  
University Studies ........................................... 3  

Sophomore Year  
First Semester  
BIO 208 Principles of Microbiology .................... 3  
NFS 212 Introductory Nutrition ............................ 3  
NUR 860 Foundations for Professional Nursing .... 2  
NUR 861 Family Health Promotion and Communication Across the Lifespan .............. 8  
NUR 863 Professional Nursing Care Across the Lifespan ........................................ 8  
Second Tier Writing Requirement or University Studies ........................................... 3  
STA 200 Statistics: A Force in Human Judgment or
HSM 241 Health and Medical Care Delivery Systems ..................................................... 3  
University Studies ........................................... 3  

Junior Year  
First Semester  
NUR 870 Pathopharmacology II .......................... 3  
NUR 871 Family Centered Care of Adults With Common Health Problems .............. 7  
STA 200 Statistics: A Force in Human Judgment or
HSM 241 Health and Medical Care Delivery Systems ..................................................... 3  
University Studies ........................................... 3  

Second Semester  
NUR 872 Clinical Reasoning: Quantitative, Qualitative and Epidemiological Approaches ........ 3  
NUR 873 Nursing Care of Childbearing, Childrearing Families .................................. 7  
University Studies ........................................... 3  
University Studies ........................................... 3  

Senior Year  
First Semester  
NUR 880 Leadership/Management in Nursing Care Delivery ......................................... 3  
NUR 881 Psychiatric Mental Health Nursing .......... 5  
NUR 883 Public Health Nursing ........................... 5  
Elective .......................................................... 3  
NUR 884 Career Management in Nursing .......... 2  
NUR 885 High Acuity Nursing ............................ 5  
NUR 886 Synthesis of Clinical Knowledge for Nursing Practice ...................................... 6  

Sample Curriculum
Baccalaureate Program  
(Registered Nurses)

Junior Year  
First Semester  
NUR 834 Advanced Concepts in Professional Nursing ................................................... 4  
NUR 514 Advanced Health Assessment ................. 2  
NUR 872 Clinical Reasoning: Quantitative, Qualitative and Epidemiological Approaches ........ 3  
STA 200 Statistics: A Force in Human Judgment ............ 3  
Second Semester  
NUR 883 Public Health Nursing ........................... 5  
NUR 864 Pathophysiology ................................. 3  
NUR 862 Pharmacology .............................. 3-4  
Elective .......................................................... 3  

Third Semester  
NUR 880 Leadership/Management in Nursing Care Delivery ......................................... 3  
NUR 886 Synthesis of Clinical Knowledge for Nursing Practice ...................................... 6  
Elective .......................................................... 3  

Second Semester  
NUR 883 Public Health Nursing ........................... 5  
NUR 864 Pathophysiology ................................. 3  
NUR 862 Pharmacology .............................. 3-4  
Elective .......................................................... 3  

Curriculum Policies

Students are expected to be familiar with the requirements for the degree of Bachelor of Science in Nursing and to confer with advisors in the College of Nursing when selecting courses.

Since the health needs of the nation are constantly changing, an effective curriculum requires continuous review and evaluation, which may necessitate revision of courses and requirements. Thus, there can be no guarantee that course content will be identical in each subsequent academic year. Furthermore, to continue to meet the changing emphasis in nursing education, some courses will require educational experiences for students in community facilities outside of Lexington.

Outcome Objectives

1. Exemplifies a personal philosophy of nursing that is consistent with professional standards.
2. Applies the nursing process as a method of providing professional nursing care to prevent illness; promote, maintain, restore client health; and/or assist clients to a peaceful death.
3. Practices critical thinking skills to make independent and collaborative decisions.
4. Incorporates research findings into professional nursing practice.
5. Provides professional nursing care to clients with actual and potential health problems in diverse settings.
6. Collaborates in planning, delivering, and evaluating nursing services in a changing society.
7. Demonstrates responsibility and accountability for professional behavior.
8. Employs theories of leadership and management in providing professional nursing care.
9. Demonstrates leadership in addressing professional nursing and health issues.
10. Provides professional nursing care based on an evaluation of internal and external forces affecting client systems.

SECOND DEGREE
B.S.N. PROGRAM

The College of Nursing is offering a new option to earn a nursing degree – the Second Degree B.S.N. (Bachelor of Science in Nursing). This option is for people who have a bachelor’s degree in a field other than nursing.

Prerequisites for Second Degree
B.S.N. Option

Students who have earned a degree in an-
other field may apply to complete a B.S.N. The admission requirements/prerequisites include:

- a bachelor’s degree;
- cumulative 2.50 GPA on a 4.0 scale for all college work;
- grade of C or higher in ANA 209 (Principles of Human Anatomy) or equivalent;
- grade of C or higher in PGY 206 (Elementary Physiology) or equivalent;
- grade of C or higher in CHE 108 (Introduction to Inorganic, Organic, and Biochemistry – Without Laboratory) or equivalent;
- grade of C or higher in PSY 100 (Introduction to Psychology) or equivalent;
- a personal reference; and
- a written statement.

It is strongly recommended that students complete the following courses with a grade of C or higher before beginning the Second Degree B.S.N. Program (they are required for graduation):

- BIO 208 (Principles of Microbiology) or equivalent; and
- STA 200 (Statistics: A Force in Human Judgment) or equivalent.

By the time of enrollment in the first course, students must have also completed a CNA course and all immunizations as listed above under “Admissions Requirements.”

Sample Curriculum
Second Degree B.S.N. Program

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 860</td>
<td>Foundations for Professional Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 866</td>
<td>Pathopharmacology</td>
<td>3</td>
</tr>
<tr>
<td>NUR 869</td>
<td>Introduction to Nursing Care</td>
<td>4</td>
</tr>
</tbody>
</table>

*Complete by Independent Study.

Semester I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 870</td>
<td>Pathopharmacology II</td>
<td>3</td>
</tr>
<tr>
<td>NUR 871</td>
<td>Family Centered Care of Adults With Common Health Problems</td>
<td>3</td>
</tr>
<tr>
<td>HSM 241</td>
<td>Health and Medical Care Delivery Systems</td>
<td>3</td>
</tr>
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</table>

Semester II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NUR 872</td>
<td>Clinical Reasoning: Quantitative, Qualitative and Epidemiological Approaches</td>
<td>3</td>
</tr>
<tr>
<td>NUR 873</td>
<td>Nursing Care of Childbearing, Childrearing Families</td>
<td>7</td>
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</tbody>
</table>

Semester III

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 880</td>
<td>Leadership/Management in Nursing Care Delivery</td>
<td>3</td>
</tr>
<tr>
<td>NUR 881</td>
<td>Psychiatric-Mental Health Nursing</td>
<td>5</td>
</tr>
<tr>
<td>NUR 883</td>
<td>Public Health Nursing</td>
<td>5</td>
</tr>
</tbody>
</table>

Semester IV

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 884</td>
<td>Career Management in Nursing</td>
<td>2</td>
</tr>
<tr>
<td>NUR 885</td>
<td>High Acuity Nursing</td>
<td>5</td>
</tr>
</tbody>
</table>

R.N. - B.S.N. - M.S.N. in NURSING

Registered nurses who have an associate degree or diploma in nursing can apply for a combined, accelerated course of study in which they can earn both a Bachelor of Science in Nursing and Master of Science in Nursing. In addition to completing the University Studies Program requirements for the baccalaureate degree, the student must complete the course work listed in the Sample Plan of Study.

All R.N.-M.S.N. students are admitted at the graduate level and pay graduate-level tuition and fees. Students in the R.N.-M.S.N. program take 12 credit hours of graduate-level pharmacology, research, pathophysiology and leadership, which fulfill the B.S.N. and M.S.N. course requirements. R.N.-M.S.N. students therefore save one semester of study over students who first finish their B.S.N. and then work toward a master’s degree.

Application materials are due by May 1. Applications received after this date will be considered if space is available. Students are admitted in the fall semester only.

ADMISSION REQUIREMENTS

- Be a licensed registered nurse, having earned either a diploma in nursing or an associate degree in nursing from an accredited program.
- Diploma graduates must successfully complete ACT-PEP test.
- Completion of all University Studies requirements, 9 credit hours of professional electives, and a minimum of 95 earned credit hours.
- 3.0 GPA on a 4.0 grading scale.
- Satisfactory scores on the GRE general test (Verbal, Quantitative and Analytical sections). Minimum scores of 400 are preferred.
- RN licensure required in state where clinicals take place. Clinical experience prior to first clinical course.
- Three letters of reference. Include one from a recent employer and one from a nursing faculty member. Two of the three must be from nurses.
- Statement of academic and profession goals.
- Interview with graduate faculty member.
- Admission to the University of Kentucky Graduate School.

R.N.-B.S.N.-M.S.N. Degree Requirements

Students in this program must meet the degree requirements for both the Bachelor of Science in Nursing program and the Master of Science in Nursing program.

In addition to completing the University Studies Program requirements, students must complete the following:

Sample Curriculum
R.N. - B.S.N. - M.S.N. Program

YEAR ONE

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>NUR 514</td>
<td>Advanced Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>NUR 602</td>
<td>Research Methods in Advanced Practice Nursing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 854</td>
<td>Advanced Concepts in Professional Nursing</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>STA 570</td>
<td>Basic Statistical Analysis</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>EDP 557</td>
<td>Gathering, Analyzing, and Using Educational Data</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>NUR 653</td>
<td>Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 883</td>
<td>Public Health Nursing</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
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</table>

YEAR TWO

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Summer</td>
<td>NUR 886</td>
<td>Synthesis of Clinical Knowledge for Nursing Practice</td>
<td>6</td>
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</tbody>
</table>

YEAR THREE

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>NUR 601</td>
<td>Theoretical Basis for Advanced Practice Nursing</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>NUR 652</td>
<td>Pharmacologic Applications in Primary Care</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 7XX</td>
<td>Specialty Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>NUR 604</td>
<td>Leadership in Advanced Practice Nursing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NUR 631</td>
<td>Applications of Advanced Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>NUR 7XX</td>
<td>Practicum I</td>
<td>6</td>
</tr>
</tbody>
</table>

Summer (Eight-Week Session)

* NUR 632 | Comprehensive Patient Management I | 2 |

Graduate Study

The College of Nursing offers programs leading to the Master of Science in Nursing, the Doctor of Philosophy in Nursing, and the Doctor of Nursing Practice. Students may obtain information on this program by referring to The Graduate School Bulletin or contacting the Office of Student Services, College of Nursing, 315 College of Nursing Building, University of Kentucky, Lexington, KY 40536-0232, (859) 323-5108.
The College of Pharmacy offers a four year curriculum leading to the Doctor of Pharmacy degree (Pharm.D.). The College of Pharmacy also offers training for postdoctoral and research fellows, residency programs and graduate training (Ph.D.) in all areas of the pharmaceutical sciences through the Graduate School. The professional program is fully accredited by the American Council on Pharmaceutical Education and satisfies all educational requirements for licensure. The residency programs are accredited by the American Society of Health Systems Pharmacists (ASHP) or by ASHP in conjunction with the American Pharmacists Association.

The major goal of the College of Pharmacy is the education of competent and contemporary pharmacy practitioners who assume responsibility for achieving optimum therapeutic outcomes through the provision of rational drug therapy and who, in cooperation with other health care professionals, can favorably influence both overall health care and the individual patient’s quality of life.

ADMISSION TO THE COLLEGE

NOTE: Deadlines for application materials may vary from year to year depending upon requirements of the Pharmacy College Application Service, as well as national testing agencies. Applicants should check the College of Pharmacy Web site at: www.mc.uky.edu/pharmacy/about June 15 before the academic year in which they intend to make application to the College for the most up-to-date listings of application deadlines and procedures.

Prepharmacy Program Requirements

Admission to the professional program is highly competitive. The number of students admitted to the Doctor of Pharmacy program depends upon the availability of resources such as faculty, clinical facilities and space for implementation of a quality educational program. Consideration for admission will be based on the applicant’s previous academic record, potential for academic achievement, standardized admission test scores, and an assessment of the applicant’s communicative skills, integrity, commitment, dedication, motivation, character, maturity and emotional stability. Each applicant must have the physical, mental and emotional ability to learn and accomplish those competencies required of a pharmacy practitioner, as well as the character and thought processes necessary to make professional judgments that benefit the patient. The minimum grade-point average (GPA) is 2.5; however, admission to the College is very competitive, and admission scores are often a grade-point higher.

The applicant should research opportunities available to pharmacy graduates, services provided by pharmacists, and obligations of pharmacy practitioners to the people they serve. In addition, the applicant is expected to communicate knowledge of these areas effectively in the interview. The Admissions Committee believes the applicant should base a decision to enter the pharmacy profession on more solid reasoning than merely an interest in science courses. Students holding degrees—or near completing degrees—in biology and chemistry, as well as preprofessional health care majors are particularly encouraged to apply for admission.

Students are admitted only for the fall semester. Since applications are screened, interviews are scheduled, and admissions decisions are made on a rolling basis, it is important that you complete your application as early in the admissions cycle as possible. The University of Kentucky College of Pharmacy Web site and the PharmCAS Web site, www.pharmcas.org, will be updated by mid-June of each year with the new admissions cycle information and application review will begin September 1 through the Early Decision process. Early applications will receive stronger consideration. Applicants should check the UK College of Pharmacy Web site at www.mc.uky.edu/pharmacy for current deadlines and application procedures.

NOTE: Any student may be denied admission or permission to continue enrollment in the College of Pharmacy if, in the opinion of the faculty, the moral or ethical character of the student casts grave doubts upon his or her potential capabilities as a pharmacist. Any type of involvement in the illegal use of drugs or other illegal or unethical acts relating to the practice of pharmacy are examples of incidents which would provide cause for considering denying admission or for dismissal of a student from the College.

Reference Criteria

Due to the broad range of academic institutions represented in the application process, it is necessary to establish reference points to evaluate the large number of applicants each year. One such reference point is the grade-point average (GPA). Other equally important reference points include the applicant’s performance on the Pharmacy College Admission Test (PCAT). Selected candidates will also be interviewed during the final stage of the admission process.

Pharmacy College Admission Test (PCAT)

A prospective applicant must take the Pharmacy College Admission Test (PCAT) and submit the scores to PharmCAS, using code 104. The highest PCAT score that is reported to PharmCAS will be considered for the admission process. In order to receive serious consideration, an applicant must score at least a total percentile composite of 50 percent on the PCAT. You may take the PCAT as many times as you like but we do not consider PCAT scores that are over five years old and we do not consider PCAT scores that are taken in January of the year in which you wish to enter.

Application Deadline for Regular Admission

Although PharmCAS applications will be accepted through the January 1 deadline, we strongly recommend that, to be competitive, you submit your application, with official transcripts and PCAT scores, as early as possible. Since applications are screened, interviews are scheduled, and admissions decisions are made on a rolling basis, it is important that complete your application as early in the admissions cycle as possible. The University of Kentucky College of Pharmacy Web site: www.mc.uky.edu/pharmacy/ and the PharmCAS Web site: www.pharmcas.org will be updated by mid-June of each year with the new admissions cycle information and application review will begin September 1 through the Early Decision process. Supplemental applications must be submitted directly to the University of Kentucky College of Pharmacy no later than January 15, though earlier application is strongly encouraged.

Important Note: It is advisable to apply 6-8 weeks prior to the set deadline to ensure that PharmCAS has ample time for transcript verification. The interview dates for each admission cycle are set in late summer by our Pharmacy Admissions Office. Those dates may vary considerably from year to year. It is strongly suggested that applicants apply well in advance (6-8 weeks) of either the Early Decision deadline (September 1) or the Regular Admission Deadline (January 1) to allow for the time necessary for PharmCAS to process your application.
Application Deadline for Early Decision Admission

The College of Pharmacy also offers an Early Decision admission option for interested students. Students wishing to apply for Early Decision must submit all application materials to both PharmCAS and UK by September 1. Selected candidates will interview in September or early October. Admission decisions will be made by October 31. For more information on the Early Decision application process, go to: www.pharmcas.org.

Transcripts

It is the applicant’s responsibility to arrange for PharmCAS, www.pharmcas.org, to receive all of your official transcripts by the application deadline date of January 1 or before. You must submit official transcripts from every U.S. and English-speaking institution that you have attended. If your fall term grades will not be available until after you apply, you must arrange for your official fall transcripts to be sent directly to PharmCAS as soon as they are available. It is your responsibility to submit your full transcripts, add any new courses completed since you first submitted your application to PharmCAS, and to edit your in-progress and planned courses.

Transfer or Readmission

The Admissions Committee cannot consider applications from students in other colleges of pharmacy when the applicant has previously been denied admission to the UK professional program or when the maximum number of students is already enrolled in the program.

Please note: Individuals who have been dropped for academic or other reasons who are applying for reinstatement in the College will have their admission considered through the Academic Performance Committee, but on a competitive basis with new applicants.

Out-of-State Applicants

The University of Kentucky is a public institution, and its primary mission is to educate residents of the Commonwealth of Kentucky and produce professionals who will provide pharmaceutical care for the citizens of Kentucky. While we recognize the value of a geographically and culturally diverse student body, generally the College’s admission process necessarily limits out-of-state residents in the professional program to ten percent.

Technical Standards

Students applying for admission should be able to meet the technical standards for students in the College. These standards should be reviewed in the section under “Academic Performance and Promotions” in the College of Pharmacy Bulletin.

Additional Requirements

Applicants should be aware that both criminal background checks and drug screens are becoming increasingly common requirements for enrollment and/or participation in some course work in the College of Pharmacy, and for eventual licensure as a pharmacist. Because of this, both may become required for admission and continuation in the College. The types of tests required, and the costs involved, are subject to change, and are often beyond the control of the College of Pharmacy and the University. The expenses for such checks and screens are borne by the individual applicant and/or student.

ACADEMIC PREPARATION FOR THE PHARM.D. PROGRAM

The College of Pharmacy recommends that applicants gain a strong foundation in the behavioral, biological, chemical, mathematical and social sciences. As indicated above, students with degrees in biology, chemistry and preprofessional health care majors are particularly encouraged to apply. Minimal requirements for admission include 70 semester credit hours of University work. The course work is outlined below in the “Required Courses” chart.

Though a degree is not required for admission, a significant number of applicants to the program have baccalaureate degrees. Individuals without degrees should seriously consider satisfying the University Studies Program (USP) requirements. With the exception of oral communication, humanities, cross-cultural and one-half of social sciences, other USP requirements will be met through the prepharmacy curriculum.

Since courses and the level at which they are offered vary significantly from one academic institution to the next, not all colleges’ courses will satisfy the areas listed below for admission. At the very minimum, all applicants must complete the appropriate courses with the required number of semester credit lecture and lab hours as posted below. For more information about whether specific courses meet requirements for admission, contact the UK prepharmacy advisor at (859) 323-2755, or the advisor at the student’s current institution. Prospective pharmacy students should contact the College at an early stage in their undergraduate career for guidance.

Required Courses

Students must complete a minimum total of 70 hours of undergraduate work to include the following:

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>semesters English composition</td>
</tr>
<tr>
<td>1</td>
<td>semester animal biology with laboratory</td>
</tr>
<tr>
<td>1</td>
<td>semester principles of microbiology with laboratory</td>
</tr>
<tr>
<td>1</td>
<td>semester mathematics (Calculus I)*</td>
</tr>
<tr>
<td>1</td>
<td>semester statistics</td>
</tr>
<tr>
<td>2</td>
<td>semesters general chemistry with lab(s), including qualitative analysis</td>
</tr>
<tr>
<td>2</td>
<td>semesters organic chemistry with two semesters of laboratory</td>
</tr>
<tr>
<td>1</td>
<td>semester human anatomy</td>
</tr>
<tr>
<td>2</td>
<td>semesters algebra-based physics minimum of 8</td>
</tr>
<tr>
<td>1</td>
<td>semester principles of microeconomics</td>
</tr>
</tbody>
</table>

*Students not prepared to take calculus may substitute both a college algebra and elementary calculus course for a total of six hours to meet the mathematics requirement for pharmacy.

Students must complete sufficient electives to develop a reasonably well-rounded individual and bring the total number of semester credit hours to 70.

General Application Guidelines

1. Access the PharmCAS online application and a list of their other required application materials on their Web site at www.pharmcas.org. Students must also submit College of Pharmacy supplemental application materials. These materials are available each year around mid-June on the College of Pharmacy Web site: www.mcl.uky.edu/pharmacy.

2. Applicants must complete the required 70 semester credit hours and all required core courses by the end of the spring term prior to beginning fall pharmacy classes. A minimum GPA of 2.50 is required for admission consideration. Applicants must also complete the following lecture and lab courses by end of the fall semester prior to the January 1 application deadline.

a. the first half of organic chemistry sequence.

b. the first half of physics sequence.

c. and either the microbiology or the anatomy course.

3. To be competitive, the applicant must be sufficiently knowledgeable about the pharmacy profession. Experience in pharmacy is not a formal requirement, but some knowledge of the pharmacy profession or other health care professions is usually helpful.

4. If the applicant does not have a bachelor’s degree, prepharmacy course work should satisfy the UK University Studies Program (USP) requirements in mathematics, inference-logic, written communication, natural sciences, half of social sciences and electives. To satisfy the remaining USP requirements, the applicant should complete courses in the following areas: one social science, two humanities and one cross-cultural. Two years of a foreign language in secondary school will meet the USP foreign language requirement. The complete USP requirements are recommended for applicants but are not a requirement.

5. Since admission decisions are made prior to the end of the spring semester, applicants must have a grade of C or higher in any required prepharmacy course taken in the spring semester prior to entering the College of Pharmacy. A grade less than C in any of these classes will result in a review of status by the Admissions Committee.
and could result in a rescinding of admission. Please note that a grade of D or below is not acceptable in any required prepharmacy course.

**Suggested Two-Year Curriculum**

Below is a suggested two-year curriculum for UK prepharmacy students with the required courses. A three-year version of this schedule can be adopted for students who desire to progress at a less aggressive pace.

### FIRST YEAR

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 152 Principles of Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 151 Principles of Biology Laboratory I or BIO 153 Principles of Biology Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 111 Laboratory to Accompany General Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 208 Principles of Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 209 Introductory Microbiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 113 Laboratory to Accompany General Chemistry II</td>
<td>2</td>
</tr>
<tr>
<td>ENG 104 Writing: An Accelerated Foundational Course</td>
<td>4</td>
</tr>
<tr>
<td>STA 291 Statistical Method</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

*Students not prepared to take MA 113 (Calculus I) may substitute both MA 109 (College Algebra) and MA 123 (Elementary Calculus and Its Applications) during the fall/spring for a total of six hours of mathematics.*

### SECOND YEAR

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 230 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 231 Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>PHY 211 General Physics</td>
<td>5</td>
</tr>
<tr>
<td>ANA 209 Principles of Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>ENG 2XX Writing Intensive Course</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>19</td>
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</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 232 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 233 Organic Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>PHY 213 General Physics</td>
<td>5</td>
</tr>
<tr>
<td>ECO 201 Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>5</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

**GENERAL INFORMATION**

For questions concerning admission, prepharmacy course work or a visit to the College, contact:

UK College of Pharmacy  
Academic Affairs and Student Services  
215 Pharmacy Building  
Rose Street  
Lexington, KY 40536-0082  
Phone: (859) 323-2755  
www.mc.uky.edu/pharmacy/
The College of Public Health

A defining characteristic of the area of public health is its focus on population groups rather than individuals. Public health professionals are concerned with the health of communities, relying heavily on collaboration with local, state, and national entities to improve the health status of their targeted populations. With the current interest in health care reform, interest in bioterrorism preparedness, concerns over managed care, and other factors impacting the nation’s health care system, the need for highly trained public health professionals is increasing. Professionals with the Master of Public Health (M.P.H.) and/or the Doctor of Public Health (Dr.P.H.) hold important roles in a variety of public and private settings, e.g., local and state health departments, healthcare facilities, universities, state and national agencies, social service agencies, and community-centered health education facilities. In these positions, they can be involved directly with the development, implementation and assessment of health education/disease prevention programs, and in initiatives for improving health care services.

The College of Public Health offers the M.P.H. degree and the Dr.P.H. degree. The M.P.H. is an applied professional/graduate degree designed for highly motivated students who either have a professional degree or a substantial interest in public health. Unique sequencing of courses, community-based program activities, and field/laboratory research provide students with multiple opportunities to define their course of study. The M.P.H. also may be part of a combined degree with other professional and graduate programs. The Dr.P.H. is a terminal professional degree that will prepare graduates to assume professional leadership responsibilities in local, state, national, and international public health activities. Course work will emphasize the integration and application of new knowledge and theory, and analytical, critical thinking, and problem solving skills to address the public health concerns of the Commonwealth and nation.

In addition, the College of Public Health offers one undergraduate course taught by Drs. Robin Vanderpool and Richard Crosby. The course is CPH 201, Introduction to Public Health. The course provides the student with basic knowledge about the discipline of public health. After receiving a philosophical and political orientation to public health, students will begin to acquire functional knowledge of the strategies most often applied in public health practice.

The College also offers a Ph.D. program in Gerontology. For more information, visit the Web site at: www.mc.uky.edu/gerontology.

The Master of Public Health degree requires a minimum of 42 credit hours of study for completion. All students must complete 18 semester hours of required core course work and 12 to 15 hours of specialty work in one of the five areas of concentration. In addition, three to six semester hours of field practicum experience are required, depending on previous professional experience in public health or related areas. UK students also complete elective course work in public health. The M.P.H. core course requirements provide a broad overview of the disciplines of public health and the basic principles of public health practice. Specialty course work develops the skills and knowledge upon which to build or enhance a career in public health. Separate M.P.H. tracks are available in each of the five areas of concentration: epidemiology, occupational/environmental health, biostatistics, health behavior, and health services management. A field practice in a community, a public health facility, a government agency or related setting will represent the culminating experience that will result in a written capstone project paper.

The Doctor of Public Health is a terminal professional degree that will prepare graduates to assume professional leadership responsibilities in local, state, national, and international public health activities. Course work will emphasize the integration and application of new knowledge and theory, and analytical, critical thinking, and problem solving skills to address the public health concerns of the Commonwealth and nation. The Dr.P.H. is designed as a college-wide advanced degree and will require a minimum of 63 semester hours of course work beyond the Master’s degree. The Dr.P.H. candidate must have a Master of Public Health, a Master of Science in Public Health, or an equivalent degree. Examples of equivalent degrees are programs related to public health, such as the Master of Arts in Communications, or the Master of Science in Nursing, along with course work equivalent to the five basic core courses in the M.P.H. curriculum. Those applications not meeting the preparation requirements will be evaluated on an individual basis.

Students will complete a curriculum spanning the five core discipline areas offered by the College of Public Health. Typically, a full-time student will require a minimum of three years beyond the master’s degree to complete the program. The program is designed to accommodate non-traditional, working, and part-time students.

The Dr.P.H. curriculum includes:

- Twenty-seven semester hours of required course work in the core curriculum, which consists of two advanced courses in the core public health disciplines (epidemiology, biostatistics, health services management, health behavior, and occupational/environmental health).
- Fifteen hours of professional selective course work.
- A one-hour integrative professional seminar in each semester of enrollment.
- Two supervised public health field experiences.
- An integrated capstone option of either a problem-based or research-based project paper demonstrating appropriate disciplinary understanding.

Applications for admission to the M.P.H. degree will be accepted and considered at any time. There is an application deadline for each program; for current information, consult the College Web site at: www.ukcph.org. Applicants are responsible for ensuring that their applications are complete, and applications will not be reviewed until all materials have been received.

For further information, contact:

College of Public Health
121 Washington Ave.
University of Kentucky
Lexington, KY 40536-0003
(859) 257-5678
fax: (859) 257-5624
e-mail: ukcph@uky.edu
www.ukcph.org/
Social work is a profession with a two-fold mission: to help people function as well as they can within their environment and to work for improved social conditions. Social workers are involved in providing services to people in such areas as education, health, mental health, housing, public welfare, counseling, services to the aging, care for the retarded, recreation, corrections and criminal justice, family services, child welfare services, services for the physically and mentally handicapped, vocational rehabilitation and the like. This includes services designed to protect, promote or restore the well-being of people. Both universal services and services for special-needs groups are included.

Social work is not only restorative in nature, responding to human problems after the fact; there is also a strong commitment towards preventive measures. An emphasis upon institutional change within society is predicated upon the principle that society has a responsibility to protect the most vulnerable groups in its midst from falling prey to damage and injury. This expresses itself in the central thrust of the social work profession towards social justice.

The origins of social work are rooted in the ancient human impulse of altruism, the desire to care for one another’s needs. Social work became a profession around the beginning of the twentieth century through the efforts of social reformers to meet the needs of the poor, of neglected children and of exploited workers through the better organization of charities and the first “friendly visitors.” Social workers led the fight for child labor laws, more humane industrial conditions, voting rights for women and other progressive causes.

Today, professional social work as described in a publication of the National Association of Social Workers, is a “dynamic, growing profession based on knowledge drawn from the social sciences and its own research and practice. It has a code of ethics, standards for practice, and a nationwide system of accredited educational programs designed to merge the impulse to help others with the skill and knowledge needed to provide that help.”

Program Accreditation
Both the Bachelor of Arts in Social Work and the Master of Social Work degree programs are fully accredited by the Council on Social Work Education.

Licensing
Social work graduates are eligible for licensing from the State Board of Examiners of Social Work of Kentucky, PO Box 456, Frankfort, KY 40602, as follows:
- BASW graduates for license as “social workers”
- MSW graduates for license as “certified social workers”

Undergraduate Program in Social Work
The University of Kentucky grants the following degree in the College of Social Work:
- Bachelor of Arts in Social Work

THE UNDERGRADUATE PROGRAM OF EDUCATION FOR SOCIAL WORK
The undergraduate program in social work was inaugurated in 1944. Effective July 1, 1969, its administration was transferred from the College of Arts and Sciences to the newly established College of Social Professions, which is now the College of Social Work. Freshmen and transfer students who elect social work as a major should arrange to register in the College of Social Work. Each student will be assigned a member of the faculty of the college as an advisor who will assist in the selection of appropriate courses and ensure that the requirements for the B.A. degree are met. Students who wish special information or a personal interview prior to registration may make an appointment through the Office of the Director of the Undergraduate Program of the College of Social Work.

The principal objective of the undergraduate program is to prepare students for beginning social work practice. Additionally, it prepares students for graduate professional education.

All social work majors have actual experience in the field under faculty direction. These experiences are provided in teaching-learning centers in a variety of agencies located in or adjacent to Lexington.

Courses in social work contribute to the liberal education of all students and help prepare them to be more effective citizens in a complex society in which welfare issues and programs are of increasing importance to everyone.

These courses may serve one or more of the following purposes:
1. To enrich and broaden the knowledge of social problems and social issues.
2. To help develop effective interpersonal relations.
3. To provide basic knowledge of social services to students who are preparing for careers in other helping professions (i.e., special education, rehabilitation, nursing, law, medicine).

Advising
Every student is assigned an academic advisor from the faculty who assists them in preparing for registration each semester. Un-
dergraduate Admission Policy

Admission to the University of Kentucky is sufficient for admission to the College of Social Work as a premajor. Social work students receive academic advising from the College of Social Work faculty and must successfully complete the premajor course requirements before applying to the BASW degree program. The premajor course requirements are: (SW 124 and SW 222) or SW 322; an introductory psychology course; an introductory sociology course; and BIO 102 and BIO 103 or BIO 110.

An application must be filed with the College of Social Work in order for a student to be considered for admission as a major. In general, admission as a major depends upon the qualifications and preparation of the applicant, as well as the availability of resources for maintaining quality instruction.

Admission Criteria to the Bachelor of Arts in Social Work Degree Program

In order to be admitted to the BASW degree program as a major, applicants must fulfill the following requirements:

1. Admission to the University of Kentucky (students are considered for acceptance by the College only after acceptance by the University);
2. A grade of B or better in both SW 124 and SW 222, or equivalent (or a grade of B or better in SW 322);
3. Submission of an application form;
4. Minimum of a 2.5 cumulative grade-point average on all college work attempted as computed by the Registrar’s Office;
5. Ability to articulate reasons for choosing social work as a career, as evidenced in an essay;
6. A passing grade in the introductory psychology course, sociology course, and in the required biology courses.

Applications for admission to the College of Social Work must be received by the Records Office of the College of Social Work no later than May 1 for summer sessions, August 1 for the fall semester, and December 1 for the spring semester.

Individuals who do not meet the admissions criteria may submit additional materials to the College’s Admissions Committee. Admission may be granted if there is persuasive evidence of both the capability and motivation to undertake successfully the BASW degree program.

BACHELOR OF ARTS IN SOCIAL WORK

Degree Requirements

The College of Social Work requires students to earn a minimum of 120 hours for the B.A. in Social Work with a minimum grade-point average of 2.5. In addition, students must earn a grade of C or better in all professional social work core classes. Students may take additional hours in accordance with stated University policy.

In addition to fulfilling University Studies requirements, students must complete the program requirements listed below.

College Required Courses Hours
SW 124 Introduction to Social Services and SW 222 Development of Social Welfare 6

*SW 322 Social Work and Social Welfare 4
*For junior transfers only, substitutes for SW 124, SW 222.

Subtotal: College Required Hours 4-6

University Studies Requirements Hours
See “University Studies Program” on pages 77-81 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Inference-Logic
STA 200 Statistics: A Force in Human Judgment 3

PHI 120 Introductory Logic

PHI 320 Symbolic Logic I 3

Oral Communication
Social work majors fulfill this requirement using courses in the Major Requirement.

Natural Sciences
BIO 102 Human Ecology 3

BIO 103 Basic Ideas of Biology 3

Graduation Writing Requirement
SW 470, required in the Major Requirements, fulfills the Graduation Writing Requirement.

Graduation Writing Requirement Hours: 3

Premajor Requirements Hours
Anthropology
Three hours, normally chosen from the following:
ANT 220 Introduction to Cultural Anthropology 3
ANT 333 Contemporary Human Variation 3

Biology
Three or six hours:
*BIO 102 Human Ecology and
*BIO 103 Basic Ideas of Biology 6

or
BIO 110 Introduction to Human Biology and Health 3

Economics
Three hours, normally:
*ECO 101 Contemporary Economic Issues 3

Political Science
Three hours, normally chosen from the following:
*PS 101 American Government 3
PS 240 Introduction to Political Theory 3
PS 245 Introduction to Political Analysis 3
PS 458 State Government 3

Psychology
Three or four hours, normally chosen from the following:
*PSY 100 Introduction to Psychology 4
PSY 223 Developmental Psychology 3

Sociology
Three hours:
*SOC 101 Introduction to Sociology 3

Statistics
Three hours:
*STA 291 Statistical Method 3
*STA 200 Statistics: A Force in Human Judgment 3

or
STA 294 Sampling and Inference 3

or
STA 291 Statistical Method 3

*These courses may also be used to fulfill University Studies requirements.

Subtotal: Premajors Hours 21-25

Major Requirements Hours
SW 300 Social Work Practice I 4

SW 400 Social Work Practice II 4

SW 420 Human Behavior and the Social Environment 3

SW 430 Social Work Policy: Theory and Implementation 3

SW 450 Social Work Research 4

SW 470 Senior Seminar 3

NOTE: Students must earn a grade of C or better in all Major Requirements courses.

Subtotal: Major Hours 36

Social and Behavioral Sciences and Social Work Electives
Students must complete 15 hours of upper-division courses from any of the following: anthropology, economics, family studies, political science, psychology, social work, sociology.

Subtotal: Related Electives 15

Electives
Students must complete at least six hours of upper-division free elective courses and enough lower-division elective hours to lead to the minimum total of 120 hours required for graduation.

Subtotal: Free Electives minimum of 6

TOTAL HOURS: 120

Probation, Dismissal and Reinstatement Policy

An undergraduate social work major or graduate student may be dismissed from the College of Social Work for failure to make satisfactory progress. In the Social Work program, the college continuously monitors the progress of all social work students. Consistent with University regulations and the CSWE requirements that social work programs have policies for “terminating a student’s enrollment..., for reasons of academic and professional performance,” the following rules apply in the College of Social Work.
Academic Performance
For students accepted to the Bachelor of Arts in Social Work (BASW) program, the rules for academic probation, dismissal and reinstatement are comparable to those established by the University for undergraduate colleges and also include criteria for student performance in required social work courses:

a. A student must earn a C or better in all social work core courses (SW 300, SW 420, SW 430, SW 444, SW 445, SW 450, SW 470) in order to complete the major requirements and advance through sequential social work courses. A grade lower than a C will require the student to repeat that course and obtain a C or better to meet major requirements.

b. Any student who fails to maintain a cumulative UK GPA of 2.5 shall be placed on academic probation within the College of Social Work.

c. A student can be removed from academic probation when a cumulative GPA of 2.5 is obtained.

d. A student shall be dismissed from the College who fails to achieve a cumulative GPA of 2.5 or higher within two consecutive semesters of being placed on probation or fails to earn a term GPA of 2.5 or higher for any two consecutive semesters following his/her placement on academic probation.

e. A student who earns a term GPA of 2.5 or higher for each semester following placement on probation will continue in probationary status until a cumulative GPA of 2.5 or higher is obtained.

f. A student may not graduate from the College of Social Work while on academic probation.

g. Students who are on academic probation within the College of Social Work may transfer to other colleges or departments provided the students meet eligibility criteria.

h. A student who has been dismissed from the College for academic reasons and has remained outside the program for at least a semester and a summer session may petition for reinstatement. Petition for reinstatement is to be made in writing to the Dean and shall include a written statement by the student specifying why he/she should be considered for reinstatement. After consultation with the Director of Undergraduate Studies and other faculty as appropriate, the Dean may choose to accept or deny the petition. The Dean may require that the student agree to certain conditions in order to be reinstated (i.e. take additional course work, complete a writing class, obtain tutoring, etc.). The Dean shall inform the student in writing that he/she has been reinstated or reasons for denial of the petition for reinstatement. No student will be readmitted to the College via reinstatement request more than twice.

i. A student who has been dismissed for academic reasons and reinstated shall, upon reinstatement, be placed on academic probation and be subject to the academic performance expectations outlined in this policy.

COURSES FOR NONMAJORS
Students from other departments are eligible to take certain social work courses offered to enrich the content of their basic major and/or to increase their knowledge and understanding of the society of which they are a part. They may take SW 124, Introduction to Social Services; SW 222, Development of Social Welfare; SW 322, Social Work and Social Welfare; and elective social work courses.

GRADUATE PROGRAMS
The College of Social Work offers graduate curricula leading to the Master of Social Work degree and to the Ph.D. in Social Work. The Ph.D. program is offered jointly with the University of Louisville. An MSW is a prerequisite to Ph.D. admission.

Master’s applicants holding the baccalaureate degree in social work may be eligible for the 38-credit advanced standing option. Others will be considered for the regular 60-credit MSW program.

For further information, see The Graduate School Bulletin or the College of Social Work Bulletin.
ADDITIONAL LEARNING OPPORTUNITIES

There are plenty of ways students can earn credit at the University of Kentucky. To learn more, see the information below. Distance Learning Programs are administered by the Office of the Associate Provost for Undergraduate Education; all other programs are administered by the Assistant Provost for Enrollment Management.

DISTANCE LEARNING PROGRAMS

Distance Learning Programs, a unit of the Teaching and Academic Support Center (TASC), provides a wide variety of faculty and student support services to enable development and delivery of credit courses and programs throughout the Commonwealth of Kentucky and around the world, with over 11,000 enrollments annually. Distance Learning students enroll in 14 full degree programs, over 600 courses, 5 certificates and state-mandated training while residing in over 200 cites and towns in more than 100 Kentucky counties. Distance Learning Programs delivers course work in cooperation with Teaching and Academic Support Center staff, UK academic departments and colleges, and other institutions of higher education statewide and nationally. Available advanced delivery modes include online instruction, interactive video, World Wide Web instruction, video-desktop conferencing, videostreaming, CD-ROM/DVD, audio conferencing, and hybrid models.

Specific support includes:
• online and hybrid course development and support;
• technical coordinators at interactive video and videoconferencing sites;
• extensive distance learning faculty and student support services;
• exploration of new technologies for distance learning delivery/modeling;
• strategic planning with academic units;
• support for collaborative distance learning programming;
• marketing for Distance Learning courses and programs; and
• coordination with Distance Learning Library Services.

For more information on Distance Learning Programs, call (859) 257-3377; or go to: www.uky.edu/DistanceLearning.

EVENING AND WEEKEND PROGRAMS

Evening and Weekend Programs is dedicated to offering high quality courses, complete degree programs and student services at convenient times to students of all ages. Of the 11,000 students enrolling in evening and weekend courses every semester, many are busy people pursuing their educational goals while balancing job responsibilities and family commitments. Students wishing to take one or two courses to enhance job skills or learn something new may choose from over 420 courses taught in evenings and on weekends in 70 fields every semester. Those wanting to complete unfinished degrees or begin study may select from eight bachelor, masters and doctoral degree programs.

Individuals desiring to pursue lifelong learning without the structure of seeking a degree may begin their studies as nondegree, undergraduate students or post-baccalaureate, graduate students. College credit earned as a nondegree student may be applied to a degree program at a later date when the student changes admission status to degree-seeking and meets the University’s requirements for admission as a degree-seeking student.

Students denied admission as degree-seeking; applicants who are under academic or disciplinary suspension; and applicants currently under suspension at other institutions may not enroll in evening and weekend courses until they have been reinstated.

Contact Evening and Weekend Programs for more information or with questions, comments, or concerns, Monday through Thursday 9 A.M. to 7 P.M.; Friday, 9 A.M. to 6 P.M.; and Saturday by appointment.

Evening and Weekend Programs
13A Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054
Phone: (859) 257-3802
Toll-Free: 1-800-432-0963 option 4
Fax: (859) 257-9594
E-mail: cmckinn@email.uky.edu
www.uky.edu/EWP/

INDEPENDENT STUDY PROGRAM

The UK Independent Study Program assists individuals from middle school onward in achieving their educational aspirations. Whether students live nearby or around the world, traditional mail delivery, electronic mail, and online offerings provide vehicles for convenient high-quality middle, high school, and college courses suited to their needs and preferences.

UK Independent Study offers over one hundred UK college credit correspondence
courses, over ninety half-unit high school credit courses in subjects such as English, social studies, mathematics, business education, health, foreign languages, and sciences, and a rising number of middle school courses in English, social studies, science, and mathematics.

**ISP High School Division**

The High School Division offers a complete curriculum of basic courses required for graduation from Kentucky high schools. All courses are taught by certified teachers, and all students are required to pass a proctored, comprehensive final examination. All courses are offered in the correspondence format, but an increasing number include an e-mail option for transmission of assignments.

In addition, the High School Division offers Advanced Placement courses in Calculus, Earth Science, Life Science, and subjects such as Language Arts/English, Integrated Math, Earth Science, Life Science, and Social Studies.

**ISP College Division**

Students enrolling for college-level courses must satisfy course prerequisites, but official transcripts are not required. Admission to the University of Kentucky is not a requirement for enrollment in ISP college credit course work.

Students pursuing degrees at the University of Kentucky should be aware of the following regulations concerning independent study (correspondence) courses:

1. No more than 30 credit hours of the total required for an undergraduate degree may be earned through independent study courses. No more than one-third of the requirements for a major may be earned through independent study courses.
2. Students may enroll for an independent study course any time during the calendar year and have one year from the date of enrollment in which to finish the course. Students may obtain a four-month extension.
3. Students in residence at the University must have permission from their dean to register for an independent study course.
4. Hours earned by independent study will be credited in the term in which the student enrolled.
5. Graduate or professional credit is not granted for work taken by independent study. Graduate students, however, may do independent study work, and the credit earned can be applied toward undergraduate major and/or minor fields for certification purposes.

University courses offered by independent study are listed below. Descriptions may be found in the Course Descriptions section of this Bulletin.

**Accounting:** ACC 201, 202  
**Agriculture:** AEC 101  
**Animal Science:** ASC 380  
**Anthropology:** ANT 101, 160, 221  
**Astronomy:** AST 191, 192  
**Biology:** BIO 103, 104, 150, 208, 304, 508  
**Economics:** ECO 101, 201, 202, 412  
**English:** ENG 102, 104, 203, 230, 261, 262, 333, 482  
**Family Studies:** FAM 251, 252, 253  
**Finance:** FIN 300  
**Forestry:** FOR 101  
**Geography:** GEO 130, 152, 160, 172, 251, 322  
**Hispanic Studies:** SPA 101, 102, 201, 202  
**History:** HIS 104, 105, 108, 109, 464, 467, 578  
**Human Environmental Sciences:** HES 100, MAT 120  
**Management:** MGT 301, 309, 320, 341, 410  
**Marketing:** MKT 300, 310, 320, 330  
**Mathematics:** MA 108R, 109, 112, 113, 114, 123, 201  
**Modern and Classical Languages, Literatures, and Cultures:** CLA 101, 102, 131, FR 101, 102, 201, 202; JPN 321  
**Music:** MUS 100, 400  
**Nutrition and Food Science:** NFS 101, 212  
**Philosophy:** PHI 100, 120, 130, 260, 305, 332, 343, 380  
**Plant and Soil Science:** PLS 104, 368  
**Political Science:** PS 101, 235  
**Psychology:** PSY 223, 331  
**Religious Studies:** RS 130  
**Sociology:** SOC 101, 235, 335, 342  
**Statistics:** STA 292, 293, 294

UK Independent Study participates in the Southern Regional Education Board’s Electronic Campus.

**Catalogs and Information**

The annual Independent Study Program college, high school, and middle school catalogs list complete course descriptions, program regulations, and tuition amounts. For further information about currently offered college courses, call (859) 257-4002. Send e-mail to: study@uky.edu. For information on middle or high school courses, call (859) 257-4001; or send e-mail to: HIGHSCHOOL-L@LSV.UKY.EDU.

Information on both programs is available on our Web site: www.uky.edu/ISP.

**SUMMERSCHOOL**

The University offers two summer sessions between the spring and fall semesters: a first summer session in May followed by a second summer session beginning in June. Summer School courses provide educational enrichment and give students the opportunity to accelerate their academic progress. Information regarding admission procedures and Summer School calendar dates are listed in the University Calendar at the front of this Bulletin.

The Summer School Schedule of Classes is available in December or early January each year. For information or for a copy of the schedule, contact:

**Summer School**  
(859) 257-3382  
e-mail: sbsize00@uky.edu  
www.uky.edu/Registrar/ss/SSMain.htm

**WINTER INTERSESSION**

Winter Intersession classes for 2007-2008 begin on December 17, 2007 and end on January 8, 2008. For more information on Winter Intersession courses, please consult the Web site:  
www.uky.edu/Registrar/winter/  
e-mail: asout2@email.uky.edu  
(859) 257-8126
Course Numbering System

001-099 — No credit, non-degree and/or developmental courses;
100-199 — Open to freshmen; undergraduate credit only;
200-299 — Prerequisite sophomore classification; or consent of instructor; undergraduate credit only;
300-399 — Prerequisite junior classification; undergraduate credit only;
400-499 — Prerequisite junior classification; undergraduate credit;
400G-499G — Graduate credit for non-majors;
500-599 — Prerequisite junior classification; undergraduate and graduate credit;
600-799 — Open only to graduate students;
800-999 — Open only to students in professional colleges and to students in other colleges offering professional degrees.

R — The letter R following the course designation and number indicates a remedial course. No course designated with an R will be counted as credit toward a bachelor’s degree at the University of Kentucky.

Courses may be approved for variable credits, e.g., (1-3), (2-6), etc. In no case, however, may the total credits exceed the maximum number authorized for the course.

Repeated registration in a course may be allowed if the course description carries the statement: “May be repeated to maximum of . . . credits.” However, a student may enroll only one time in a specific course during a given semester. Courses with the same number are not considered to be the same course if different identifying titles are an integral part of the record.

Unless indicated in the course description, the number of credits for a course indicates the number of lecture or discussion or class hours.

Exceptions to the requirements for admission to courses may be made as follows:

a. Freshmen and sophomores may be admitted to courses numbered between 300 and 499, upon approval of the instructor and the dean of the student’s college. Such approval is limited to students who have demonstrated superior ability or preparation.

b. Seniors with superior ability or preparation may be admitted to courses numbered between 600 and 799, upon approval of the instructor, the dean of the student’s college and the Dean of The Graduate School.

c. Courses elected on a pass-fail basis.
A&S Arts and Sciences

A-E 515 INTRODUCTION TO ART THERAPY. (3)
An examination of various historical and contemporary conceptions of the therapeutic function and value of art from an art therapy perspective. The impact of art experience on emotional, intellectual and behavioral development and/or rehabilitation will be explored through readings and hands-on art experiences. Lecture, two hours per week; laboratory, two hours per week. Prereq: PSY 311 and major or consent of instructor.

A-E 538 ADVANCED ARTS AND CRAFTS IN THE ELEMENTARY SCHOOL. (3)
Planned to give the elementary teacher an understanding of teaching methods involved in, and connections of, arts education which would enrich the classroom program.

A-E 554 TOPICAL STUDIES IN ART EDUCATION (Subtitle required). (3)
Intensive study and analysis of a designated topic, issue or problem in the philosophy, history, or methodology of art education in community and public school settings. May be repeated to a maximum of six credits. Prereq: Art education major or consent of instructor.

A-E 576 ART IN MIDDLE SCHOOLS. (3)
Study of perceptual and aesthetic awareness in Middle School level children/adolescents. Field and practice experiences with methods and materials appropriate to the teaching of art in the middle school. Lesson planning, curriculum design, evaluation, teaching skills, classroom safety, and multicultural activities included. Readings: lecture, demonstration, micro-teaching and laboratory experiences. Prereq: Major in art education, admission to the Teacher Education Program (TEP), or consent of instructor.

A-E 578 ART IN ELEMENTARY SCHOOLS (Subtitle required). (3)
Study of perceptual and aesthetic awareness in primary and intermediate grades. Field and practice experiences with methods and materials appropriate to the teaching of art in the elementary school. Multicultural activities stressed. Lesson planning, curriculum design, evaluation, teaching skills, classroom safety, multicultural activities included: lecture, demonstration, micro-teaching and laboratory experiences. Prereq: Major in art education, admission to the Teacher Education Program (TEP), or consent of instructor.

A-E 579 ARTS AND HUMANITIES IN ART EDUCATION. (3)
Inquiry into the relationship of current philosophies of art education and aesthetics; a consolidation of art education ideas with a formation of criteria for evaluating visual experiences; an examination of the personal viewpoint consistent with education and art as humanitarian endeavors. Prereq: Major in art education, admission to the Teacher Education Program (TEP), or consent of instructor.

A-E 645 TOPICAL RESEARCH IN ART EDUCATION (Subtitle required). (3)
Advanced topical study of a designated topic, issue or development in the philosophy, history, or methodology of art education in community and public school settings. May be repeated to a maximum of six credits. Prereq: Graduate standing in art education.

A-E 670 SCHOOL AND COMMUNITY ART. (3)
Analysis of the organization of school and community related programs in art: case studies of existing programs. Field experience, educational involvement: Lectures and demonstrations. Prereq: Major in Art Education or consent of instructor.

A-E 695 INDEPENDENT WORK: ART EDUCATION. (1-3)
Supervised individual research, experimental practice, and the initiation of field experiences leading to the discovery and development of new knowledge in art education theory and method. A formal learning contract between student and supervising faculty members is required. May be repeated to a maximum of six credits. Prereq: Graduate standing in the department and consent of instructor.

A-E 748 MASTER'S THESIS RESEARCH. (1-6)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

A-H Art History

A-H 104 INTRODUCTION TO AFRICAN ART. (3)
Study of African art which in sculpture, painting, pottery, textiles, architecture, altar art, human adornment and performance are approached on the basis of style, iconography and function, and in relation to religious, political, market and daily contexts. This course examines the ways in which “Africa” has been conceived and deconstructs the assumptions shaping each approach. The processes (and problems) of collecting and displaying African art will be addressed throughout the course.

A-H 105 ANTIQUE THROUGH MILITARY ART. (3)
Survey of the development of art and architecture with primary emphasis on cultures of Egypt, Western Asia, Greece, Rome, and medieval Europe.

A-H 106 RENAISSANCE THROUGH MODERN ART. (3)
Historical development of Western art and architecture from the fourteenth century through the nineteenth century. Interpretations of art in terms of the political, social and economic context of the time.

A-H 307 ANCIENT NEAR EASTERN AND EGYPTIAN ART. (3)
Study of the art and architecture, and material culture of the civilizations in the ancient Near East (Mesopotamia, Assyria, Persia) and of Egypt, from Neolithic origins through the first millennium B.C.E. Prereq: A-H 105 recommended.

A-H 308 STUDIES IN AFRICAN ART (Subtitle required). (3)
Focus upon a particular medium, region, period or theme within African art. Research and discussion to address one or more of the following topics: art by region (central, east, north, south, or west Africa, or the African diaspora), by medium (such as ceramics, performance, or architecture), by time period (such as ancient or “contemporary”), or by theme (such as gender or politics). May be repeated under a different subtitle to a maximum of six credits. Prereq: A-H 104 recommended.

A-H 309 CROSS-CULTURAL STUDIES IN ART (Subtitle required). (3)
This topical study will be offered at least three times within the following regions: Africa, Europe, North America, South America, Central Asia, Western Asia, Western Pacific Islands. At least two thirds of the traditions studied will be non-European. According to the subtitles, the course will focus upon themes, periods, media, and theoretical issues in arts from various cultures. May be repeated under a different subtitle for a maximum of six credits.

A-H 310 STUDIES IN ROMAN ART (Subtitle required). (3)
Study of the art and architecture of Rome. According to subtitles, attention will focus on various aspects of public or private painting, sculpture and architecture as reflections of political, social and cultural developments in the Roman world from the early Republic through the time of Constantine. May be repeated under a different subtitle to a maximum of six credits. Prereq: A-H 105 recommended. (Same as CLA 312.)

A-H 311 STUDIES IN BYZANTINE AND MEDIEVAL ART. (3)
Study of the art of Greece. According to subtitles, attention may focus on particular periods or media from Bronze Age through Hellenistic Greece in the context of political, social and intellectual developments. May be repeated under a different subtitle to a maximum of six credits. Prereq: A-H 105 recommended. (Same as CLA 313.)

A-H 312 STUDIES IN DYNAMIC ART (Subtitle required). (3)
Considers the interrelationships of art and architecture with religion, science, politics, and other expressive forms as they shape and are shaped by medieval patrons and artists between the fourth and fifteenth centuries C.E., according to subtitle. May be repeated under a different subtitle to a maximum of six credits. Prereq: A-H 105 recommended.

A-H 334 STUDIES IN RENAISSANCE ART (Subtitle required). (3)
According to the subtitle, a study of specific developments, problems and issues pertaining to art production between 1500 and 1700. May be repeated under a different subtitle to a maximum of six credits. Prereq: A-H 106 recommended.

A-H 335 STUDIES IN EARLY MODERN ART, 1550-1700 (Subtitle required). (3)
According to the subtitle, a study of specific developments, problems, and issues pertaining to art production between 1550 and 1700. Prereq: A-H 106 recommended.

A-H 339 STUDIES IN ART 1700-1840 (Subtitle required). (3)
Study of specific developments, problems, and issues pertaining to art, art practice, and art theory between 1700 and 1840. May be repeated under a different subtitle to a maximum of six credits. Prereq: A-H 105 or A-H 106 recommended.

A-H 339 STUDIES IN ART 1840-1914 (Subtitle required). (3)
Study of specific developments, problems, and issues pertaining to art, art practice, and art theory between 1840 and 1914. May be repeated under a different subtitle to a maximum of six credits. Prereq: A-H 334 or A-H 105 recommended.

A-H 341 STUDIES IN 20TH CENTURY ART (Subtitle required). (3)
Dependent on subtitle, this course examines aspects of 20th century art in its social, political, and aesthetic contexts. May be repeated under a different subtitle to a maximum of six credits. Prereq: A-H 106 recommended.

A-H 342 STUDIES IN AMERICAN ART (Subtitle required). (3)
Readings, research and discussions in a lecture format on American visual arts in one or more of the following contexts: colonial America, anti-helium America, the Gilded Age, 20th C. Modernism, the Depression, and America during the Cold War. May be repeated under a different subtitle to a maximum of six credits. Prereq: A-H 106 recommended.

Course Descriptions
A-H 434 HISTORY OF PHOTOGRAPHY. (3) An in-depth study of the visual and cultural history of photography from its invention to the present day. Emphasis on fine art photography, the work and contributions of its practitioners, the relationship of photography to other media and to the material culture within which it is situated. Prereq: A-H 105 recommended.

A-H 330 CONTEMPORARY ART. (3) Through close reading, discussion, and research, this course examines major issues raised in art and art criticism since 1965. Particular attention is given to the impact of social, technological, and economic developments on theory and concepts of art and the artist. Prereq: A-H 106 recommended.

A-H 399 EXPERIMENTAL EDUCATION IN ART. (1-15) A community-based or field-based experience in Art History. A formal learning contract among student, field supervisor, and supervising faculty is required. May be repeated under a different subtitle to a maximum of 15 hours. Prereq: A-H 105 and A-H 106.

A-H 407 ART HISTORY HONORS SEMINAR. (3) Faculty-supervised seminar on advanced art history majors, leading to an Honors Thesis. Topics to be determined. Prereq: A-H major and CFA learning contract approved by faculty member.

A-S 410 STUDIES IN ART HISTORY (Subtitle required). (3) The study of a single artist or combination of artists in the social, political, and cultural contexts of the study of a particular genre or subject developed over a broader period of history. Classes presented in a lecture format with critical study of texts, research, and discussion. May be repeated under a different subtitle to a maximum of six credits. Prereq: A-H 105 or A-H 106.

*A-H 501 MUSEUM STUDIES I: INTRODUCTION. (3) An introduction to museumology and the museum profession as related to a particular exhibition project. Intended for advanced students in art history and museum format, coordinated with courses at the University of Kentucky Art Museum staff. Prereq: Major in art history or arts administration (with art history emphasis), or consent of instructor.

A-H 502 MUSEUM STUDIES II: INTERNSHIP. (3) A supervised internship in a professional museum setting that builds upon Museum Studies I. The student will work in several areas of museum activity: administration, curatorship, education, registration and collection management, design, development, public relations, etc. Laboratory, 10 hours per week. May be repeated to a maximum of 9 credits within different contexts. Prereq: Completion of A-H 102 with a grade of B or better.

A-H 503 ART HISTORY THROUGH THE ART OBJECT (Subtitle required). (3) Examination of original works of art on campus or in regional collections within an art-historical context. The course may focus on a particular medium, class or objects, period, or artist. May be repeated up to 6 credits with different subtitles. Prereq: Junior standing.

A-H 525 STUDIES IN GENRES AND MEDIA (Subtitle required). (3) Study of a particular genre (type of subject, such as still life) or a particular medium (type of object, such as the icon) in the history of art. May be repeated up to 6 credits when identified by a different subtitle. Prereq: Junior standing.

A-H 526 ART AND THE ARTIST IN SOCIETY (Subtitle required). (3) An historical study of a topic or period with particular emphasis placed on an exhibition of works from a particular medium, class of objects, period, or artist. May be repeated up to 6 credits with different course subtitles. Prereq: Junior standing.

A-H 528 TOPICAL SEMINAR IN ART HISTORY (Subtitle required). (3) Art historical study of a topic or period with particular emphasis placed on an exhibition of works from a particular medium, class of objects, period, or artist. May be repeated up to 6 credits with different course subtitles. Prereq: Junior standing.

A-H 529 ART HISTORY THROUGH THE ART OBJECT (Subtitle required). (3) In-depth study of a work of art, a particular artist, an artistic period, or an iconographic or thematic study. May be repeated to a maximum of six credits when identified by a different subtitle. Prereq: Graduate standing.

A-H 626 THE ARTIST IN SOCIETY: (Subtitle required). (3) Art historical study of a topic or period with particular emphasis placed on an exhibition of works from a particular medium, class of objects, period, or artist. May be repeated under a different subtitle to a maximum of six credits when identified by a different subtitle. Prereq: Graduate standing.

A-H 628 ART HISTORICAL APPROACHES TO ART HISTORY: (Subtitle required). (3) Art historical study of a topic or period with particular emphasis placed on an exhibition of works from a particular medium, class of objects, period, or artist. May be repeated under a different subtitle to a maximum of six credits when identified by a different subtitle. Prereq: Graduate standing.

A-S 330 PHOTOGRAPHY I. (3) An introductory studio experience to the design and fabrication of woven and non-woven fiber art in two and three dimensions; emphasis on color, structure and related aesthetic values. Nine studio hours per week. Prereq: A-S 102 or consent of instructor.

A-S 331 PHOTOGRAPHY II. (3) An introductory studio experience to the design and fabrication of woven and non-woven fiber and fabric. Nine studio hours per week. Prereq: A-S 330 or consent of instructor.

A-S 350 INTERACTIVE DESIGN. (3) An introductory level course in which students learn advanced video techniques and digital tools. Nine studio hours per week. Prereq: A-S 255 or consent of instructor.

A-S 351 FIBER II. (3) An introductory level course in which students learn advanced video techniques and digital tools. Nine studio hours per week. Prereq: A-S 255 or consent of instructor.

A-S 361 SCULPTURE II. (3) An introductory level course in which students learn advanced video techniques and digital tools. Nine studio hours per week. Prereq: A-S 360 or consent of instructor.

A-S 370 CERAMICS I. (3) An introductory level course in which students learn advanced video techniques and digital tools. Nine studio hours per week. Prereq: A-S 370 or consent of instructor.

A-S 371 CERAMICS II. (3) An introductory level course in which students learn advanced video techniques and digital tools. Nine studio hours per week. Prereq: A-S 370 or consent of instructor.

A-S 380 PHOTOGRAPHY I. (3) An introductory level course in which students learn advanced video techniques and digital tools. Nine studio hours per week. Prereq: A-S 380 or consent of instructor.

A-S 381 PHOTOGRAPHY II. (3) An introductory level course in which students learn advanced video techniques and digital tools. Nine studio hours per week. Prereq: A-S 380 or consent of instructor.

A-S 384 COLOR PHOTOGRAPHY. (3) A-S 384 is an introductory course in color photography. The emphasis is on developing the techniques of photographic printing and understanding the role of perception. Students receive technical instruction in negative and positive film development and printing. Studio, nine hours per week. Prereq: A-S 380 or consent of instructor.

A-S 385 DIGITAL METHODS FOR PHOTOGRAPHY. (3) An intermediate level course designed to teach students to create digital images using advanced computer imaging systems, logos, and corporate identity design, line art, and cartoons for advertising illustration, as well as solutions for posters, banners, and other large format projects. Nine studio hours per week. Prereq: A-S 340 (with a grade of B or better) and Portfolio Review.

A-S 349 WEB DESIGN. (3) An intermediate level course designed to prepare students to create web pages. Emphasis is on creating functional and aesthetic web content to facilitate the current design standards of the internet. Instruction focuses on navigation strategies, directory structures and familiarity with networks is stressed. Nine studio hours per week. Prereq: A-S 200 or consent of instructor.

A-S 346 DIGITAL VIDEO. (3) An intermediate level course in which students learn advanced video editing techniques and digital tools. Nine studio hours per week. Prereq: A-S 255 or consent of instructor.

A-S 347 MULTIMEDIA. (3) An intermediate level course in which students learn advanced video editing techniques and digital tools. Nine studio hours per week. Prereq: A-S 255 or consent of instructor.

A-S 301 EXPERIMENTAL EDUCATION IN ART. (1-15) A community-based or field-based experience in Art History. A formal learning contract among student, field supervisor, and supervising faculty is required. May be repeated under a different subtitle to a maximum of 15 hours. Prereq: A-S 102 or consent of instructor.

A-S 310 ART HISTORY THROUGH THE ART OBJECT (Subtitle required). (3) In-depth studio study of a work of art, a particular artist, an artistic period, or an iconographic or thematic study. May be repeated to a maximum of six credits when identified by a different subtitle. Prereq: Graduate standing.

A-S 311 PAINTING I. (3) Introductory studio experience in two-dimensional representation and abstraction using a variety of basic drawing materials and processes. Six studio hours per week. Prereq: A-S 102.

A-S 312 PAINTING II. (3) Advanced studio experience emphasizing the descriptive and abstract qualities of painting. Twelve studio hours per week. Prereq: A-S 311.

A-S 313 PAINTING III. (3) Continuation of studio experience emphasizing the descriptive and abstract qualities of painting. Twelve studio hours per week. Prereq: A-S 312.

A-S 314 PAINTING IV. (3) Advanced studio experience emphasizing the descriptive and abstract qualities of painting. Twelve studio hours per week. Prereq: A-S 313.

A-S 315 GRAPHIC DESIGN: THE FUNDAMENTALS. (3) An intermediate level course in which students learn advanced video techniques and digital tools. Nine studio hours per week. Prereq: A-S 310 or consent of instructor.

A-S 320 INTERMEDIATE DRAWING. (3) Advanced studio experience emphasizing the descriptive and abstract qualities of painting. Twelve studio hours per week. Prereq: A-S 310 or consent of instructor.

A-S 321 PRINTMAKING I. (3) Introductory studio experience in printmaking media and processes relevant to the topics and techniques of printmaking. Nine studio hours per week. Prereq: A-S 300 or consent of instructor.

A-S 322 PRINTMAKING II. (3) Continuation of A-S 321 Studio. Nine studio hours per week. Prereq: A-S 321 or consent of instructor.

A-S 330 INTERMEDIATE DRAWING. (3) Advanced studio experience emphasizing the descriptive and abstract qualities of painting. Twelve studio hours per week. Prereq: A-S 320 or consent of instructor.

A-S 331 PHOTOGRAPHY III. (3) Advanced studio experience emphasizing the descriptive and abstract qualities of painting. Twelve studio hours per week. Prereq: A-S 330 or consent of instructor.
A-S 390 TOPICAL STUDIES (Subtitle required). (3)

Students study an innovation or problem in a specific field and will be required to identify and discuss their own writing assignments. Professors will continue to discuss the opportunities open to them in the field of Arts Administration, and to network with other students in the program, faculty, program guests and working arts administrators. These activities will include program and announcements regarding the availability of grants and awards. Students will also become aware of employment and volunteer opportunities within the arts, and will have the opportunity to pursue professional positions upon graduation. Pass/fail only. Majors are required to enroll in a minimum of 4 semesters.

AAD 200 ARTS ADMINISTRATION COMMUNICATIONS. (3)

The purpose of this course is to introduce students to the primary written and oral communication techniques that they will be expected to use throughout the remainder of their arts administration courses. For example, business letters, education and program guides, print and electronic advertisements, publicity materials, brochures, press releases, and the like all require mastery of a different writing style. Additionally, students will learn how to make effective public presentations, based upon their writing assignments. Completion of USB English requirements. Prereq: Completion of ENG 104. Enrollment restricted to AAD pre-majors during primary window.
# AAD 202 ARTS ADMINISTRATION TECHNOLOGIES. (3)
The purpose of this course is to design and produce materials utilized by arts organizations to communicate with their patrons. Additionally, the course will familiarize students with a number of design-related computer applications. Prereq: AAD 200 or consent of the instructor.

# AAD 300 ARTS MANAGEMENT ISSUES. (3)
The course will examine methods used by arts organizations to sell admissions to their events and to sell other arts products. Emphasis is placed on developing a marketing strategy related to product, pricing, sales, and promotion. Prereq: Completion of AAD 200, AAD 202 and one of the following: COM 181, COM 287, TA 225, or consent of the instructor.

# AAD 320 FUND RAISING FOR THE ARTS. (3)
An introduction to methods used by nonprofit arts organizations such as churches, museums, schools, and theaters to raise money from sources other than selling art work or admissions to regular season events. Topics covered include raising funds from foundations, corporations, governmental grants, and private funding. Prereq: COM 181, COM 287, TA 225, or consent of the instructor.

# AAD 330 INSTITUTIONAL MANAGEMENT OF ARTS ORGANIZATIONS. (3)
This course provides an overview of the financial management practices utilized by nonprofit arts organizations. It focuses on developing a framework for assessing and examining the different financial accounting systems, the mission of the organization, the institution’s goals and objectives, and evaluating the financial requirements of the organization. Emphasis is placed on processing and analyzing financial data. Prereq: AAD 200, AAD 202 and one of the following: COM 181, COM 287, TA 225, or consent of the instructor.

# AAD 350/450 SPECIAL TOPICS IN ARTS ADMINISTRATION (Subtitle required). (3)
A seminar which covers special topics in arts administration. May be repeated with a different subtitle. Prereq: AAD 200, AAD 202 and one of the following: COM 181, COM 287, TA 225, or consent of the instructor.

# AAS 260 AFRICAN AMERICAN HISTORY TO 1865. (3)
A study of the African-American experience through the Civil War. Emphasis is placed on the role of African Americans in the struggle for freedom, African-American migration, and the 1865-1877 period. Prereq: Six hours of social science (SOCI 110 or 112, or SOC 235).

# AAS 261 AFRICAN AMERICAN HISTORY 1865-PRESENT. (3)
This course traces the Black experience from Reconstruction to the Civil Rights Movement of the 1960s. Prereq: AAS 260 or consent of instructor.

# AAS 262 AFRICAN AND CARIBBEAN LITERATURE AND CULTURE OF FRENCH EXPRESSION IN TRANSLATION (Subtitle required). (3)
This course covers the literature and culture of the French-speaking world between Africa and the Caribbean in terms of historical, sociological, political, and literary events. No knowledge of French is required. Prereq: AAS 254 or consent of instructor.

# AAS 264 MAJOR BLACK WRITERS. (3)
A cross-cultural and historical approach to written and oral works by major Black authors from Africa, the Caribbean, and the United States. The course includes writers such as Chinua Achebe (Africa), Wilson Harris (Caribbean), and Toni Morrison (USA). (Same as ENG 264.)

# AAS 313 HUMAN DEVELOPMENT (Subtitle required). (3)
A listening survey course covering the chronological evolution of race from its West African and European roots, through its germinal process in America, to the present. Emphasis will be upon the various styles and functions of race, particularly as they have been affected by changing social-cultural patterns during the twentieth century. (Same as MUS 306.)

# AAS 328 GEOGRAPHY OF THE MIDDLE EAST AND NORTH AFRICA. (3)
A comprehensive regional overview emphasizing cultural adaptation to desert environments. The interrelationships among religions, cultures, and the physical environment will be examined, along with the role of the region’s position and influence in the global economy. Prereq: GEO 152, GEO 160, GEO 172, or consent of instructor. (Same as GEO 328.)

# AAS 330 GEOGRAPHY OF SUB-SAHARAN AFRICA. (3)
This course focuses on the cultural and environmental landscapes of the subcontinent, the region’s societies and cultures, and the social geography of contemporary economic developments. Prereq: GEO 150 and 152, or GEO 172. (Same as GEO 336.)

# AAS 336 RACE AND SPORT IN AMERICA. (3)
This seminar examines the history of race and sport in America. (Same as HIS 390.)

# AAS 384 BLACK THEATER WORKSHOP. (3)
A workshop that explores the history, literature, performance and theater artists of the African diaspora. (Same as TA 384.)

# AAS 400 SPECIAL TOPICS IN AFRICAN-AMERICAN STUDIES (Subtitle required). (3)
Detailed investigation of a particular topic in African-American Studies, with emphasis on both content and existing research. Topics will vary from semester to semester and are announced the preceding semester. May be repeated to a maximum of six credits when identified by a different subtitle. Prereq: Twelve hours of African American Studies minor courses, including AAS 200.

# AAS 401 INDEPENDENT READING AND RESEARCH IN AFRICAN-AMERICAN STUDIES. (3)
For African-American Studies minors, the student pursues a course of reading and research under the guidance of a staff member, completes a major research project, and submits a written contract defining the area of study is negotiated between student and instructor at the beginning of the course. May be repeated to a maximum of six credits when identified by a different subtitle. Prereq: Twelve hours of African American Studies minor courses, including AAS 200.

# AAS 4175 SURVEY OF SUB-SAHARAN POLITICAL ISSUES. (3)
A survey of the various political systems and political parties in Africa. May be repeated to a maximum of twelve credits. Pass/Fail only. Prereq: Completion of AAD 200, AAD 202 and one of the following: COM 181, COM 287, TA 225, or consent of the instructor.

# AAS 420 INDEPENDENT RESEARCH AND RESEARCH METHODS. (3)
For African-American Studies seniors. The student reads a number of books on an area of interest to the student and submits a written report on the study. Seminar is designed to help the student complete a major research project that will enable the student to complete a thesis. Prereq: Completion of AAD 200, AAD 202 and one of the following: COM 181, COM 287, TA 225, or consent of the instructor.

# AAS 421 SURVEY OF AFRICAN AMERICAN HISTORY. (3)
A survey of the social, political, and economic evolution of African-Americans from the 16th to the 20th centuries. Prereq: SOCI 110 or 112. (Same as SOC 235.)

# AAS 424 HISTORY OF SUB-SAHARAN AFRICA. (3)
A survey of the social, political, and economic evolution of Africa south of the Sahara. Prereq: Consent of instructor. (Same as SOC 302 or 304. (Same as SOC 433.)

# AAS 471 RACE, ETHNICITY AND POLITICS. (3)
A sociological study of topics relevant to social inequalities and racism in various societies. Prereq: SOC 101 or consent of instructor. (Same as SOC 233.)

# AAS 525 ADVANCED TOPICS IN SOCIAL INEQUALITIES (Subtitle required). (3)
A study of advanced topics in social inequality and stratification. May be repeated to a maximum of six credits under different subtitles. Prereq: Sociology senior major, Sociology or African-American Studies minor, consent of instructor, or consent of instructor.

# AAS 550 EDUCATION IN AFRICA. (3)
This course assists future educators in developing strategies to create an equitable teaching/learning environment where all students are validated, stimulate, and nurtured. Course participants explore the rationale for their current belief systems and perceptions of other cultures; investigate how and why their personal attitudes, behaviors, and expectations affect the academic and social development of children and youth, and examine contemporary educational issues. (Same as SOC 550.)

# AAS 601 THEORIES, PERSPECTIVES, TRENDS AND ISSUES IN MULTICULTURAL EDUCATION. (3)
A study of the development of multicultural education theories, perspectives, current issues, and trends. Students will develop the competencies needed to write scholarly literature in multicultural education, including research studies, and submit papers for review and presentation at professional meetings. Prereq: Graduate standing, EDP 557 or equivalent. (Same as EDP 615.)

# AAS 616 MULTICULTURAL PSYCHOLOGY. (3)
This course is designed to increase one’s sensitivity to and respect for individual differences. Models, frameworks, techniques, and experiences are presented to increase one’s skill level in working with persons from racially and ethnically diverse backgrounds. Prereq: EDP 500 or equivalent consent of instructor. (Same as EDP 616.)

# AAS 635 SEMINAR IN SOCIAL INEQUALITIES. (3)
This seminar provides a perspective to social inequalities and racism. It includes both classic and contemporary works on topics such as political economy, the state, domination, democracy, work, poverty, welfare, resistance, class, race, ethnicities, and gender. The course serves as a foundational course for graduate students with social inequalities, and interested students. Prereq: Graduate standing in the area of study. Prereq: SOC 650 or SOC 651 or consent of instructor. (Same as SOC 655.)

# AAS 654 READINGS IN MODERN AFRICAN-AMERICAN HISTORY. (3)
Introduces graduate students to the historical literature on 20th century African-American history and major historiographical issues. (Same as HIS 654.)

# AAS 656 AFRICAN-AMERICAN LITERATURE. (3)
An in-depth study of the literature of black America, with concentration on major texts by major black writers. (Same as ENG 656.)

# AAS 677 RACE RELATIONS IN THE UNITED STATES. (3)
A seminar focused on the changing role of race relations in the United States from Reconstruction to the present. Using primary documents and secondary readings, this course will examine the construction of race relations and the individuals, organizations, events, and issues significant to the shaping of the black experience. (Same as HIS 677.)

# AAS 703/704 SOCIAL WORK PERSPECTIVES ON HUMAN AND CULTURAL DIVERSITY. (3)
This second required course in the human behavior and social environment sequence builds upon the foundation course. The focus of this course is upon the effects of discrimination and oppression experienced by diverse population groups with special attention to the effects of racism, sexism, ageism, classism and geography upon vulnerable groups; and upon institutionalized societal and cultural factors of diversity; with implications for social work practice. Prereq: SW 620 or advanced standing in the MSW program. (Same as SW 720.)

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# ABT Agricultural Biotechnology

# ABT 101 INTRODUCTION TO BIOTECHNOLOGY. (1)
An introduction to biotechnology, career opportunities, and academic programs and future directions. The course will consist of informal lectures and interactive discussions led by Biotechnology faculty and professional guest lecturers. Prereq: Consent of instructor. (Same as BIOT 101.)

# ABT 200 ADVANCED INBIOT (Subtitle required). (3)
A study of advanced topics in biotechnology. May be repeated with different subtitles. Prereq: Consent of instructor.

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# Key:
# – new course
# = course changed
# † – dropped course
Course Descriptions

ABT 201 SCIENTIFIC METHOD IN BIOTECHNOLOGY. (3) A course designed to acquaint students with the common experimental methods used in agricultural biotechnology. Students will be presented with several case studies which demonstrate basic scientific reasoning, functions, and inductive reasoning. The students will then use their understanding of basic scientific methods and agricultural systems to critically evaluate work from the current scientific literature. Students are required to provide a critical and oral evaluation of a research project in some aspect of agricultural biotechnology. This course will provide the students with the critical thinking skills needed for preparing their own research proposals. Prereq: ABT 101 and enrollment in the Agricultural Biotechnology degree program or consent of instructor.

ABT 301 WRITING AND PRESENTATIONS IN THE LIFE SCIENCES. (3) The purpose of this course is to expose students to current scientific literature in the life sciences, develop skills for the evaluation of primary research literature and presentations, prepare students to write and present scientific papers, and develop their oral communication skills. Student participation is a key component of activities, and students are required to provide both oral and written evaluations of readings, publications, presentations, and proposals. A major part of the course involves students developing, writing, and presenting an independent research proposal in coordination with a research mentor. This course should be taken prior to ABT 395 or ABT 399, and students must identify a research mentor early during the senior year. Prereq: Agricultural Biotechnology major or consent of instructor.

ABT 360 GENETICS. (3) The basic principles of heredity as currently understood from evidence accumulated in classical, cytogenetic, molecular, and quantitative genetic experiments. Emphasis is placed on a thorough understanding of genetic principles and the relationship of genetics to all biological disciplines. Prereq: Six credits in biological sciences and one course in general chemistry. (Same as ASCENT 360.)

ABT 361 GENETICS LAB ONLINE. (1-1) An interdiscipline laboratory deals with genetics problems using interactive computer programs. Prereq: ABT/ASC/ENG 360 (should be taken concurrently).

ABT 395 INDEPENDENT STUDY IN BIOTECHNOLOGY. (1-4) Independent study in biotechnology under the supervision of a faculty member. Prereq: Agricultural Biotechnology major and consent of appropriate instructor before registration.

ABT 399 EXPERIMENTAL LEARNING IN BIOLOGY. (1) An internship in biotechnology under the supervision of a faculty member. May be repeated to a maximum of six credits. Prereq: Consent of instructor, chairperson for the Agricultural Biotechnology degree program and enrollment in the Agricultural Biotechnology degree program or completion of a learning contract before registration.

ABT 460 INTRODUCTION TO MOLECULAR GENETICS. (3) Molecular genetics is the study of the biochemical basis of heredity and focuses on the structure and expression of DNA at the molecular and cellular level. The course will provide a detailed understanding of the biochemical events involved in genome replication, prokaryotic and eukaryotic transcription, and translation of DNA, as well as RNA processing, recombination and the theoretical underpinnings of genetic engineering. Prereq: ABT/ASC 360 or BIO 304 or consent of instructor. (Same as ENT 460.)

ABT 461 INTRODUCTION TO POLYATOMIC IONS. (3) This survey course examines the population dynamics and equilibria of gases in nuclei, chloroplasts and mitochondria. Emphasis will be on the role of energy in regulating prokaryotic and eukaryotic metabolism, but some theoretical derivations will also be introduced. Prereq: ABT 360 (or equivalent) and one course in probability/statistics. (Same as ENT 460.)

ABT 495 EXPERIMENTAL METHODS IN BIOTECHNOLOGY. (4) A course designed to give students the technical skills and understanding necessary to critically examine biological systems at the molecular level. The course will emphasize the principles of chemistry, biochemistry and molecular biology as applied to a model system for laboratory investigations. Laboratory, nine hours per week. Prereq: BIO 150 and AGR 360, or consent of instructor.

ACC Accounting

ACC 201 FINANCIAL ACCOUNTING I. (3) This course is designed to introduce the student to the financial accounting for the purpose of understanding the role of financial accounting in decision making. Prereq: Sophomore standing.

ACC 203 MANAGERIAL USES OF ACCOUNTING INFORMATION. (3) An introduction to the use of accounting data within an organization to analyze and solve problems and to make planning and control decisions. Prereq: ENG 160 and BE 162 and ENG 211 FINANCIAL ACCOUNTING LAB. (1) A laboratory-based approach to introductory financial accounting applications for students with little or no exposure to accounting. The primary objective is to promote an understanding of how accounting information is identified, recorded, and processed for financial reporting. Prereq: ACC 201 and consent of instructor.

ACC 300 FINANCIAL ACCOUNTING II. (3) This course is designed to acquaint accounting majors to provide expanded study of the impact of relevant financial accounting issues on the users of financial reporting. Topics may include financial statements, operational assets; investments; intangible assets; current liabilities; long-term liabilities; leases, long-term post-retirement benefits, and earnings-per-share. Not open to Accounting majors. Prereq: ACC 201 and ACC 203.

ACC 301 INTERMEDIATE ACCOUNTING I. (3) This course is the first of a two-course financial accounting series, providing an in-depth study of the accounting cycle, conceptual framework of financial reporting, valuation of balance sheet accounts, recognition of revenues, matching of expenses, and the reporting of the financial condition of an entity. Prereq: ACC 201 (may be taken as a corequisite) and a grade of C or better in ACC 201 and 202.

ACC 302 INTERMEDIATE ACCOUNTING II. (3) This course is the second in the two-course financial accounting series, providing an in-depth study of the accounting cycle, conceptual framework with the functional areas of the balance sheet accounts, recognition of revenues, matching of expenses, and the reporting of the financial condition, operating results, and cash flows of an entity. Prereq: ACC 301. (May be taken as a corequisite) and a grade of C or better in ACC 201 and 202.

ACC 399 INTERNSHIP IN ACCOUNTING. (1-4) Students choose an accounting firm, bank, or related company paper on what is expected and filed in chairperson’s office. May be repeated to a maximum of six credits. Prereq: GPA of 3.0 in major, approval of instructor and chairperson.

ACC 403 AUDITING. (3) This course examines the attest function in accounting. Emphasis is placed on audit standards and objectives, including the concept of operational controls, the audit of financial systems to the functional areas of accounting. Using contemporary information technology, students analyze, design, and implement accounting systems along with relevant internal control structures. Prereq: ACC 324 (or taken as a prerequisite) and a grade of C or better in ACC 201 and 202.

ACC 407 CONCEPTS AND CONCEPTS OF INCOME TAXATION. (2) A study of the federal income tax structure, with emphasis on the uses of information, rather than its preparation. Prereq: ACC 324, ACC 403 and admission to MSACC program, or consent of the Director of Graduate Studies.

ACC 410 NOT-FOR-PROFIT AND REGULATORY ACCOUNTING. (3) A detailed study of selected topics in taxation, including partnership taxation, tax research, and other tax topics. Prereq: ACC 507 and admission to MSACC program, or consent of the Director of Graduate Studies.

ACC 416 ADVANCED TOPICS IN ACCOUNTING. (1-3) A study of the contemporary issues in the areas of not-for-profit and regulatory accounting. Prereq: ACC 410 or consent of instructor.

ACC 516 SELECTED TOPICS IN TAXATION. (2) A study of selected topics in taxation, including partnership taxation, tax research, and other tax topics. Prereq: ACC 507 and admission to MSACC program, or consent of the Director of Graduate Studies.

ACC 521 INDEPENDENT STUDY IN ACCOUNTING. (1-3) Designed for students undertaking special studies to be conducted in regular semester sessions. May be repeated to a maximum of six credits. Prereq: ACC 324, ACC 403 and admission to MSACC program, or consent of the Director of Graduate Studies.

ACC 624 ENTERPRISE INFORMATION AND CONTROL SYSTEMS. (3) The course simultaneously examines two issues related to enterprise information systems development: 1) methodologies for designing and implementing information systems, and 2) assessment of enterprise internal and external control systems and “real world” projects are used to accomplish the course objectives. Current computer technologies, including relational database systems, internet technology and its use on the course content. Prereq: ACC 324, ACC 403 and admission to MSACC program, or consent of the Director of Graduate Studies.

ACC 627 CORPORATE TOOLS OF REGULATION. (3) A detailed study of the income taxation of corporations and shareholders. Prereq: ACC 507 and admission to MSACC program, or consent of the Director of Graduate Studies.

ACC 628 FINANCIAL/MANAGERIAL ACCOUNTING. (3) A study of the application of accounting information and services in the recognition or solution of management problems in business. Prereq: Graduate standing in the MBA program, ACC 202 or its equivalent and MA 123 or its equivalent. Course credit will not be given to students in the MSACC program.

ACC 637 TAXATION OF FLOW-THROUGH ENTITIES. (3) A detailed study of the income taxation of flow-through entities, including partnerships, S corporations, and limited liability companies. Prereq: ACC 507 and admission to MSACC program, or consent of the Director of Graduate Studies.

ACC 647 MULTILATERAL TAXATION. (3) A study of the taxation of taxpayers located in two or more tax jurisdictions. The course involves two major categories, international taxation and taxation of multinational corporations, and the exercises and “real world” projects are used to accomplish the course objectives. Current computer technologies, including relational database systems, internet technology and its use on the course content. Prereq: ACC 324, ACC 403 and admission to MSACC program, or consent of the Director of Graduate Studies.

ACC 681 ADVANCED TOPICS IN ACCOUNTING (Subtitle required). Prereq: ACC 407, ACC 410, ACC 416, ACC 516 and ACC 624, or consent of the Director of Graduate Studies. Designed for students taking special topics in Accounting. May not be taken as a co-requisite with any other course. May be repeated to a maximum of three times under the same title. A particular topic may be offered at most three times under the ACC 681 number. Prereq: Admission to MSACC program or consent of the Director of Graduate Studies.

ACC 700 TOPICAL SEMINAR IN ACCOUNTING RESEARCH (Subtitle required). Prereq: ACC 700, or consent of the Director of Graduate Studies. Designed for students taking special topics in Accounting research on behavioral decision-making, research using archival data, and special topics in theoretical models, and may be repeated to a maximum of eighteen credits. Prereq: Doctoral student status in business administration.

ACC 795 INDEPENDENT STUDY IN ACCOUNTING. (1-4) Designed for students undertaking studies to be conducted in regular semester sessions. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

ACU American Culture

ACU 301 TOPICS IN AMERICAN CULTURE. (3) A survey course selected in American Culture, emphasizing approaches to interdisciplinary study in this field and the ways that different disciplines, when integrated, better complement each other. Possible topics include: slavery, racism, women’s rights, Native Americans, the West, the South, the city and industrialization. May be repeated to a maximum of six credits. Prereq: ACU 301.

ACU 401 PERSPECTIVES IN AMERICAN CULTURE. (3) A team-taught seminar on a selected period in American history, emphasizing social and cultural events and intellectual perspectives on that period. Possible periods for study: Colonial America, the Enlightenment Age in America, the Age of Jackson, American Reconstruction, the Gilded Age, World War I, America between the Two Wars, and Contemporary America. May be repeated to a maximum of six credits. Prereq: ACU 301.
AEC 301 TOPICS IN ANIMAL MARKETING. (1-3) Study in special topics in animal marketing. May be repeated under a different subject to a maximum of 6 credits. (Same as ECO 215.)

AEC 302 AGRICULTURAL MANAGEMENT PRINCIPLES. (4) A comprehensive study of economic principles and management tools useful in farm and agricultural business decision making. Utilizes a systems approach to teaching and learning agriculture. Preparatory to AEC 305 and ECO 401. Prereq: AEC 101 and MA 113 or 113E.

AEC 303 MACROECONOMIC CONCEPTS IN AGRICULTURAL ECONOMICS. (3) Emphasis on the development of theoretical models of production and consumption economics and application of these models to problems. The importance of concepts of supply and demand is related to resource decisions, and the meaning of the terms “market structure” and “market demand.” Preparatory to ECO 201 or MA 113.

AEC 305 FOOD AND AGRICULTURAL MARKETING PRINCIPLES. (4) Analysis of the planning and strategy in determining prices and coordinating productive activities in the food and agricultural systems. Preparatory to ECO 202.

AEC 309 INTERNATIONAL AGRICULTURE, WORLD FOOD NEEDS AND U.S. TRADE IN AGRICULTURAL PRODUCTS. (3) Producers and consumers around the world depend on agriculture for food, income, and employment. Preparatory to ECO 201. Prereq: AEC 301 and consent of instructor. (Same as ECO 303.)

AEC 311 LIVESTOCK AND MEAT MARKETING. (3) Provides students with a comprehensive look at the unique characteristics of the marketing system for livestock. Problems in both the feeder animal sector and the fed animal sector will be considered. Preparatory to AEC 305. Prereq: ECO 201.

AEC 312 AGRICULTURAL ECONOMICS. (3) An introduction to agricultural economics and some of the basic tools and concepts of decision making. Concepts are illustrated in terms of selected current social and economic issues including the role of agriculture in the national and international dimensions. Preparatory to AEC 301. Students who have completed ECO 201 are not eligible to take AEC 301 without the consent of the instructor.

AEC 319 AGRICULTURAL MARKETING AND OUTPUT DETERMINATION. (3) Analysis of the structure and performance of market systems in grain, and the application of economic and marketing principles to the pricing and movement of grain. Preparatory to AEC 305. Prereq: AEC 311.

AEC 320 AGRICULTURAL PRODUCT MARKETING AND SALES. (3) This course examines marketing activities within the U.S. food system. Sector performance is considered as well as the competitive behavior of firms within various agricultural market environments. Fundamental marketing principles, methods, and strategies are considered, with a special focus on developing effective sales programs for agricultural products. Preparatory to AEC 305.

AEC 321 AGRICULTURAL FUTURES MARKETS. (3) The mechanics, theory, and practical application of hedging as related to agricultural commodities. The historical development of futures markets, functions of the futures markets, and the role of the speculator will also be explored. Prereq: AEC 305.

AEC 324 AGRICULTURAL LAW. (3) A study of legislation, administrative regulations, constitutions, and court cases that have economic ramifications on agricultural and rural life. Preparatory to AEC 301.

AEC 339 EXPERIENTIAL LEARNING IN AGRICULTURAL ECONOMICS. (1-6) Field experience in the application of economic concepts in agriculture to the agricultural and rural world. May be repeated to a maximum of six credits. Prereq: Consent of instructor, director of undergraduate or graduate studies and completion of a proposal of learning objectives and outcomes prior to registration.

AEC 350 AGRICULTURAL POLICY. (3) An introduction to mathematical approaches to the study of policy. Emphasis on linear models, constrained optimization, and techniques used in comparative statics. Prereq: ECO 401 and MA 113, or consent of instructor. (Same as ECO 457.)

AEC 351 INTRODUCTION TO QUANTITATIVE ECONOMIC MODELS. (3) An introduction to mathematical approaches to the study of policy. Emphasis on linear models, constrained optimization, and techniques used in comparative statics. Prereq: ECO 401 and MA 113, or consent of instructor. (Same as ECO 457.)

AEC 352 AGRICULTURAL AND FOOD POLICY. (3) This course explores the agricultural and food policies that influence the agricultural and rural economies. Students are exposed to the conflicting views of those concerned with food and agricultural policies and to the practical applications of tools and principles that are used to evaluate alternatives in terms of the general welfare of society. Preparatory to AEC 301 or ECO 303.

* AEC 360 SPECIAL PROBLEMS IN AGRICULTURAL ECONOMICS. (1-3) Special study of an approved topic. May be repeated to a maximum of six credits. Prereq: Consent of instructor, director of undergraduate or graduate studies and completion of a proposal of learning objectives and outcomes prior to registration.

AEC 365 INTRODUCTION TO QUANTITATIVE ECONOMIC MODELS. (3) An introduction to mathematical approaches to the study of policy. Emphasis on linear models, constrained optimization, and techniques used in comparative statics. Prereq: ECO 401 and MA 113, or consent of instructor. (Same as ECO 457.)

AEC 366 ADVANCED AGRICULTURAL MARKETING. (3) A critical examination of objectives and results of various types of research on market organization, marketing channels, and marketing systems over time, space, and form, market information, commodity promotion programs, quality standards, and macroeconomic linkages. Prereq: AEC 590 and ECO 601.

AEC 368 INTERNATIONAL TRADE IN AGRICULTURAL PRODUCTS. (3) This course examines internationally current empirical research on the world trade in agricultural products. Prereq: ECO 601, AEC 624 and ECO 671.

AEC 369 AGRICULTURAL ECONOMY. (3) An advanced study of the application of economic theory and policy to the analysis of the marketing of agricultural products. Prereq: ECO 401 or equivalent.

AEC 374 TIMBER ECONOMICS. (4) The principles of sustained yield timber management, organization of the forest area, management objectives, timber valuation, regulation of the cut, harvest scheduling, inventory plans, and forest management. Preparatory to ECO 351. Three hours lecture, three hours laboratory, two hours. Preparatory to AEC 101, FOR 201, and Summer Camp (FOR 375, 376, 377, 378, and 379), or consent of instructor. (Same as FOR 425.)

AEC 381 AGRICULTURAL MARKETING AND OUTPUT DETERMINATION. (3) An introduction to agricultural economics and some of the basic tools and concepts of decision making. Concepts are illustrated in terms of selected current social and economic issues including the role of agriculture in the national and international dimensions. Preparatory to AEC 301. Students who have completed ECO 201 are not eligible to take AEC 301 without the consent of the instructor. (Same as ECO 303.)

AEC 383 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS. (3) A study of statistical methods in agricultural economics. Preparatory to ECO 301, AEC 305 and ECO 401.

AEC 385 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS. (3) A study of statistical methods in agricultural economics. Preparatory to ECO 301, AEC 305 and ECO 401.

AEC 386 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS. (3) A study of statistical methods in agricultural economics. Preparatory to ECO 301, AEC 305 and ECO 401.

AEC 387 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS. (3) A study of statistical methods in agricultural economics. Preparatory to ECO 301, AEC 305 and ECO 401.

AEC 388 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS. (3) A study of statistical methods in agricultural economics. Preparatory to ECO 301, AEC 305 and ECO 401.

AEC 389 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS. (3) A study of statistical methods in agricultural economics. Preparatory to ECO 301, AEC 305 and ECO 401.

AEC 390 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS. (3) A study of statistical methods in agricultural economics. Preparatory to ECO 301, AEC 305 and ECO 401.

AEC 391 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS. (3) A study of statistical methods in agricultural economics. Preparatory to ECO 301, AEC 305 and ECO 401.

AEC 392 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS. (3) A study of statistical methods in agricultural economics. Preparatory to ECO 301, AEC 305 and ECO 401.

AEC 393 QUANTITATIVE METHODS IN AGRICULTURAL ECONOMICS. (3) A study of statistical methods in agricultural economics. Preparatory to ECO 301, AEC 305 and ECO 401.
**Course Descriptions**

**AED 569 METHODS OF TEACHING IN CAREER AND TECHNICAL EDUCATION.** (3) Development of teaching competencies with emphasis on: discussion, demonstration, problem-solving, cooperative learning, service learning methods and computer assisted instruction. Coreq: AED/TEC 580. (Same as AED 589.)

**AED 570 ADVANCED METHODS IN TEACHING CAREER AND TECHNICAL EDUCATION.** (12) Supervised experience in teaching Career and Technical Education. Requires observation, lesson plan development, and incorporation of effective teaching methods and strategies. Regularly scheduled seminars included as an integral part of course. Prereq: Admission into the Teacher Education Program and successful completion of AED/TEC 580 and AED/TEC 590. (Same as AED 590.)

**AFS 211 AEROSPACE STUDIES I.** (1) A course designed to provide the student with a basic understanding of the nature and principles of war, national power, and the Department of Defense role in the administration of national security. The student also develops leadership abilities by participating in a military organization, the cadet corps, which offers a wide variety of situations demanding effective leadership. Prereq: AFST 110. Pass/fail only. Coros: AFST 110.

**AFS 212 AEROSPACE STUDIES II.** (1) A course designed for development of critical thinking skills including superior/subordinate relationships, communications, customs and courtesies, basic drill movements and career progression requirements. Credit will not be granted toward the hours requirements for the degree. Pass/fail only. Coros: AFS 211, AFS 213.

**AFS 213 AEROSPACE STUDIES III.** (1) Introduces the study of air power from a historical perspective; focuses on the development of the U.S. and the U.S. Air Force into a primary element of national security. Leadership experience is continued through active participation in the cadet corps. Lecture, one hour; laboratory, one hour per week. Prereq: AFS 211 or 212 or P&S approval.

**AFS 214 AEROSPACE STUDIES IV.** (1) A course designed for development of advanced skills required to be a manager/leader, including leadership styles, public speaking, group dynamics, motivation and preparation for field training. Credit will not be granted toward the hours requirements for the degree. Pass/fail only. Coros: AFS 213, AFS 215.

**AFS 215 AEROSPACE STUDIES V.** (1) A continuation of AFS 213. A course designed to develop supervisory management skills to include communications, techniques of critique, social actions, personnel evaluation procedures, problem solving, role playing and field training preparation. Credit will not be granted toward the hours requirements for the degree. Pass/fail only. Coros: AFS 214, AFS 216.

**AFS 220 FARMACTORS AND ENGINES.** (3) Principles of selection and application of machinery and engines. Operating principles of internal combustion engines including carburetion, fuel injection, ignition, and lubrication. Power transmission applied to efficiency of power. Lecture, two hours per week; laboratory, two hours per week.

**AFS 252 FARMSHOP.** (3) Wood and metalwork shop including blueprint reading, oxyacetylene and arc welding, power woodworking tools, soldering and pipe work. Lecture, one hour; laboratory, four hours. Prereq: Major in agricultural education or consent of instructor.

**AFS 340 PRINCIPLES OF FOOD ENGINEERING.** (4) The functional requirements and principles of operation of systems for the handling and processing of agricultural products. Lecture, three hours; laboratory, two hours per week. Prereq: Junior standing and completion of physics and mathematics requirement in Food Science curriculum. (Same as FCS 340.)

**AFS 461G BIOMETEOROLOGY.** (3) An introduction to the impact and relationship of the atmosphere on living organisms. Emphasis will be placed on the applications of meteorology to everyday problems within the biosphere. Weather analysis, interpretation, psychometrics of the atmosphere, and the impact of weather on the climate under discussion. Lecture: two hours; laboratory: two hours per week. Prereq: BIO 150 and STA 291 or consent of instructor.

**AED 635 PRINCIPLES AND PHILOSOPHY OF CAREER AND TECHNICAL EDUCATION.** (3) Study of methodology, accepted principles, and legislation affecting career and technical education. (Same as FCS 529.)

**AED 580 FOUNDATIONS OF TEACHING CAREER AND TECHNICAL EDUCATION.** (3) Course is designed to develop teaching techniques including effective teacher characteristics, principles of teaching and learning, and preparation of lesson plans. Prereq: Admission into the Teacher Education Program. (Same as FCS 580.)

**AED 786 RESIDENCE CREDIT FOR MASTER'S DEGREE.** (1-6) May be repeated to a maximum of 12 hours. Prereq: Consent of advisor and chairperson of department.

**AED 789 RESIDENCE CREDIT FOR DOCTOR'S DEGREE.** (0-12) May be repeated to a maximum of 60 hours. Prereq: Consent of advisor and chairperson of department.

**AED 790 SPECIAL PROBLEMS IN AGRICULTURAL EDUCATION.** (1-3) Open to graduate students who have the necessary training and ability to conduct research on a selected problem. May be repeated three times for a total of nine credits. Prereq: Consent of instructor and departmental chairperson.

**AED 791 RESEARCH WORK IN AGRICULTURAL EDUCATION.** (3-9) Independent research under the direction of a faculty members and the Director of Graduate Studies. Prereq: Successful completion of written portion of AEC qualifying exam and permission of Director of Graduate Studies.

**AED 796 SEMINAR (Subtitle required).** (3) An extended period of investigation of a specific topic designed to give students experience in methods of research and an intensive study of a particular subject in the field of agricultural economics. May be repeated to a maximum of six credits under different subtitles. Prereq: Ph.D. applicant or candidate.

**AEN 103 AGRICULTURAL ENGINEERING PRINCIPLES OF SURVEYING.** (2) General use of surveying equipment, development of topographic maps, layout of engineering systems, earthwork computations, and introduction to the Food Science curriculum. This course is not available for credit to persons who have received credit in another introductory surveying course. Lecture, one hour; laboratory, three hours. Prereq: A course in trigonometry, enrollment in the College of Agriculture and/or consent of instructor.
AIS 202 INTERMEDIATE MODERN ARABIC. (3)
A continuation of AIS 201, stressing comprehension of written and oral material, the ability to read Arabic aloud and to compose written material, and the ability to speak. Prereq: AIS 201.

AIS 301 COLLOQUIAL ARABIC. (3)
Provides advanced skills in developing linguistic and communicative skills built upon Egyptian Arabic that is widely understood throughout the Arab world. Introduces aspects of Egyptian cultural life. Designed for those who have some experience with Standard Arabic, or the equivalent, and are now in pursuit of intensive study.

AIS 302 COLLOQUIAL ARABIC. (3)
A continuation of AIS 301. Prereq: AIS 301 or consent of instructor.

AIS 328 ISLAMIC CIVILIZATION. (3)
The rise of Islam and its development.

AIS 330 ISLAMIC CIVILIZATION. (3)
The Islamic world's response to westernization and the resultant reassessment of its cultural heritage. May be repeated for credit to a maximum of four credits.

AIS 331 CLASSICAL ARABIC LITERATURE (in English). (3)
Reading from some of the major works of Arabic literature (poetry and prose) of the 6th-14th centuries which are an integral part of the Arab cultural heritage, e.g., the Mu'allaqat, Koran, Ibn al-Isra'il, al-Tabari's Ta'rikh; Abu'l Faraj's Kitab al-Aghani; al-Ghazzali's Ihya; al-Hariri's Maqamat; Ibn Khaldun's Muqaddimah.

AIS 338 WOMEN AND ISLAM. (3)
A survey of women's issues related to Islam and contemporary Muslim culture including the perception of women in Islam, the role and rights of women in Islam, female circumcision, honor killing women, women's roles. The course covers the views of the Muslim, traditionalist, modernist, western feminists and the emerging Islamic feminists.

AIS 340 FUNDAMENTALISM AND REFORM IN ISLAM. (3)
This course focuses on the revival of Islam in the 20th century and the various responses to it within the mainstream Islamic political and intellectual domination. Particular attention will be given to the role of Islamic fundamentalism. May be repeated for credit to a maximum of four credits.

AIS 350 INDEPENDENT WORK IN ARABIC/ISLAMIC STUDIES. (1-3)
Students who have the proper qualifications may undertake a special major problem in reading and research. May be repeated to a maximum of six credits. (Recommended.)

AIS 430 TOPICS IN ISLAMIC STUDIES (Subtitle required). (3)
Variable in content, this course focuses on important topics in Islamic history, religion, philosophy, and politics. May be repeated to a maximum of six credits under different subtitles.

AIS 440 INTRODUCTION TO THE QURAN. (3)
An introduction to the Quran, to its major themes, style of presentation, and relevance to contemporary societies and issues.

AIS 442 ARABIC READING. (3)
Advanced skills in spoken, reading, and analyzing selected texts from traditional and modern Arabic literature using formal spoken and written Arabic. Introduction to the use of Arabic computer software. Prereq: AIS 202 or equivalent.

AIS 443 ARABIC WRITING. (3)
Continuation of 2044B, with emphasis on written Modern Arabic Short Stories. Prereq: AIS 442 or equivalent.

AIS 495 ADVANCED INDEPENDENT WORK IN ARABIC/ISLAMIC STUDIES. (1-3)
Advanced independent study. Students in advanced Eastern Studies on an advanced level for undergraduate and graduate students. Students will be required to establish a written relationship with the relevant faculty member describing the tasks to be completed in the course. May be repeated to a maximum of six credits, or a total of six credits of AIS 395 and 495G.

AIS 499G ADVANCED INDEPENDENT WORK IN ARABIC/ISLAMIC STUDIES. (Subtitle required.)
May be repeated for credit to a maximum of four credits. (Recommended.)

AMS Basic Course Descriptions

AMS 101 INTRODUCTION TO THE ARMY. (2)
This introductory-level course is designed for students who are interested in the Army. It is a prerequisite to 102, 201 and 202. This course provides an understanding of what the Army is, how it functions, and its place in society. Students will also be introduced to the Army's traditions, values, and its relationship with the nation. This course will be taught by an instructor who has served in the Army and has experience teaching this course.

AMS 102 INTRODUCTION TO LEADERSHIP. (2)
This course is designed to acquaint the student with the fundamental skills necessary for the skillful and successful leadership of others. Course topics include leadership theories, leadership styles, and the role of the leader in contemporary society. This course is designed to help students develop the skills necessary for effective leadership in a variety of settings, including the military, business, and government.

AMS 201 AMERICAN MILITARY HISTORY. (3)
Study of the development of military forces of the United States from its early colonial days to the present. This course will cover the major events and developments in American military history, including the Revolutionary War, Civil War, World War I, and World War II. Students will also be introduced to the various aspects of military leadership and the importance of effective communication in the military.

AMS 202 EFFECTIVE MILITARY COMMUNICATIONS. (2)
This course provides instruction and practice in writing and speaking in the Military. Students will develop effective communication skills through a variety of written assignments and writing assignments. Small unit tactics and map reading skills will also be taught.

AMS 211 ADVANCED LEADERSHIP. (2)
This course focuses on both theoretical and practical aspects of leadership. Students will examine topics such as leadership theory, decision making, and conflict resolution. This course will also introduce students to the role of the military leader in contemporary society.

AMS 212 ADVANCED LEADERSHIP. (2)
This course focuses specifically on leadership, offering an extensive overview of the role of leadership in the military. Prereq: AMS 101, 102 and 101, or consent of instructor.

AMS 250 BASIC MILITARY SCIENCE LAB. (2)
The basic components of the military science program are required for basic military science and will also be required for basic military science. Lab exercises will be primarily practical and will include the use of weapons, drills, and other military maneuvers.

AMS 301 LEADERSHIP AND MANAGEMENT. (3)
Introduction to basic leadership skills and concepts, with an emphasis on the development of basic skills required for success in the military. Prereq: AMS 101, 102, graduate or undergraduate student (male or female), successful completion of basic course or basic camp, physical fitness to pursue poses of the course.

AMS 302 ADVANCED TACTICS. (2)
Small unit tactics and communications, organization and mission of combat units, leadership in combat. Prereq: AMS 101, 102, graduate or undergraduate student (male or female), successful completion of basic course or basic camp, physical fitness to pursue poses of the course.

AMS 320 ADVANCED STUDIES IN AMERICAN MILITARY HISTORY. (3)
This course will cover the history of the U.S. military, focusing on the military leadership and the role of the military in American history. This course will be taught by an instructor who has served in the military and has experience teaching this course.

AMS 325 COMMAND AND COMMAND. (3)
An advanced study of leadership, operations, military administration, personnel management, military justice, world change and military implications, service orientation and leadership training. Prereq: AMS 301, 302.

AMS 342 LEADERSHIP AND COMMAND. (3)
An advanced study of leadership, operations, military administration, personnel management, military justice, world change and military implications, service orientation and leadership training. Prereq: AMS 301, 302.

AMS 350 ADVANCED MILITARY SCIENCE LAB. (1)
A hands-on practicum which exposes the student to the military skills required to become an Army officer. The course affords junior and senior cadets opportunities to develop and refine their leadership style and abilities under differing situations and environments. Laboratory, two hours per week and two weekend exercises. May be repeated to a maximum of four credits. Prereq: AMS 250, AMS 101, 102, and AMS 202. Consent of instructor (Same as HIS 320.)

AMS 395 INDEPENDENT STUDY IN LEADERSHIP. (1-2)
Advanced study in leadership. Students are under guidance and confer individually with faculty on approved topic(s). A written report or paper is expected and will be filed in the chairperson's office. May be repeated to a maximum of four credits. Consent of instructor (Same as HIS 320.)

AMS 401 LEADERSHIP AND MANAGEMENT. (3)
An advanced study of leadership, operations, military administration, personnel management, military justice, world change and military implications, service orientation and leadership training. Prereq: AMS 301, 302.

AMS 402 ETHICS IN LEADERSHIP. (3)
A study of ethical issues in leadership, focusing on the ethical decisions and moral dilemmas faced by leaders in the military. This course will teach students how to make ethical decisions in leadership roles.

AMS 410 FUNDAMENTALISM AND REFORM IN ISLAM. (3)
This course focuses on the revival of Islam in the 20th century and the various responses to it within the mainstream Islamic political and intellectual domination. Particular attention will be given to the role of Islamic fundamentalism. May be repeated for credit to a maximum of four credits.

AMS 430 INDEPENDENT WORK IN ARABIC/ISLAMIC STUDIES. (1-3)
Students who have the proper qualifications may undertake a special major problem in reading and research. May be repeated to a maximum of six credits under different subtitles.

AMS 440 INTRODUCTION TO THE QURAN. (3)
An introduction to the Quran, to its major themes, style of presentation, and relevance to contemporary societies and issues.

AMS 442 ARABIC READING. (3)
Advanced skills in spoken, reading, and analyzing selected texts from traditional and modern Arabic literature using formal spoken and written Arabic. Introduction to the use of Arabic computer software. Prereq: AIS 202 or equivalent.

AMS 443 ARABIC WRITING. (3)
Continuation of 2044B, with emphasis on Modern Arabic Short Stories. Prereq: AIS 442 or equivalent.

AMS 495 ADVANCED INDEPENDENT WORK IN ARABIC/ISLAMIC STUDIES. (1-3)
Advanced independent study. Students in advanced Eastern Studies on an advanced level for undergraduate and graduate students. Students will be required to establish a written relationship with the relevant faculty member describing the tasks to be completed in the course. May be repeated to a maximum of six credits, or a total of six credits of AIS 395 and 495G.

AMS 499G ADVANCED INDEPENDENT WORK IN ARABIC/ISLAMIC STUDIES. (Subtitle required.)
May be repeated for credit to a maximum of four credits. (Recommended.)

AMS 500 SPECIAL TOPICS IN MILITARY HISTORY. (3)
Comparative study of major world and selected regional religions with emphasis on analysis of belief, ritual, artistic expression and influences in the common humanity and uniqueness of all cultures; to gain a temporary world. Goals of the course include gaining an appreciation for the cultural, biological, archaeology, and linguistics.

AMS 505 ADVANCED MILITARY SCIENCE LAB. (1)
A hands-on practicum which exposes the student to the military skills required to become an Army officer. The course affords junior and senior cadets opportunities to develop and refine their leadership style and abilities under differing situations and environments. Laboratory, two hours per week and two weekend exercises. May be repeated to a maximum of four credits. Prereq: AMS 250, AMS 101, 102, and AMS 202. Consent of instructor (Same as HIS 320.)

AMS 530 INDEPENDENT STUDY IN LEADERSHIP. (1-2)
Advanced study in leadership. Students are under guidance and confer individually with faculty on approved topic(s). A written report or paper is expected and will be filed in the chairperson's office. May be repeated to a maximum of four credits. Consent of instructor (Same as HIS 320.)
This course introduces the student to how anthropologists approach e.g., cold, heat, aridity and altitude, and human-made stresses, e.g., a wide range of environments and the stresses inherent in each. It focuses on human variation resulting from adaptation to the Spanish conquest. Attention will be given to both traditional cultural features and the present examples of non-Western symbolic systems. Prereq: ANT 319 or consent of instructor.

ANT 429 SURVEY OF MEDICAL ANTHROPOLOGY. (3) This course provides a health, disease, and healing in non-Western and Western societies. An examination of major theoretical perspectives in medical anthropology. Prereq: ANT 220 or consent of instructor.

ANT 431 CULTURES AND SOCIETIES OF SUB-SAHARAN AFRICA. (3) A survey of indigenous societies and cultures of Africa south of the Saharan, with special attention to their adaptation to colonialism and post-colonial development. Prereq: ANT 220, or consent of instructor. (Same as AAS 431G.)

ANT 432 ANTHROPOLOGY OF EASTERN EURASIA. (3) An anthropological approach to the cultural, political, and economic experiences of people living under state socialism and its demise in Eastern Europe and post-communist Russia. Prereq: ANT 220, or consent of instructor.

ANT 433 SOCIAL ORGANIZATION. (3) This course provides an understanding of how anthropologists approach the study of social organization. The class will provide historical and conceptual background to the study of social organization, and explore a range of topics from rural households to large and complex communities. Prereq: ANT 220 or consent of instructor.

ANT 435 CULTURES AND POLICIES OF REPRODUCTION. (3) This course takes a cross-cultural approach to understanding the ways reproduction and associated phenomena (such as family formation, child care, gender, kinship relations) and social relations are being created and changed. Ethnographic case studies will explore cross-cultural constructions of the body (sexuality, anatomy and physiology), parenthood, and kinship relations; and students will examine the ways the state, social movements, legal/medical experts, and lay persons struggle to appropriate reproductive potentials for their own needs. Prereq: ANT 220 or WS 201 or permission of instructor.

ANT 440 ANTHROPOLOGICAL PERSPECTIVES ON CHILD GROWTH. (3) This course examines basic concepts of child growth and development, the evolutionary and developmental patterns of human growth across populations. Taking a biocultural approach, it explores the influences that facilitate or constrain child growth, including food, nutrition, illness, focusing especially on social inequality. Taken a child-centered approach, the course also focuses on the lives of children, how children shape the circumstances of their lives, and the effect of those circumstances on their well-being. Prereq: ANT 230 or consent of instructor.

ANT 4700 REGIONAL AMERICAN ETHNOGRAPHY. (3) The ethnography of a selected North American or South American culture area or group. Both historical and contemporary cultures will be considered. Topics may include California, Peru, Urban, African, etc. May be repeated to a maximum of six credits. Prereq: ANT 220 or consent of instructor.

ANT 490 ANTHROPOLOGICAL RESEARCH METHODS. (3) Introduction to anthropological research methodology and techniques in ethnology, biological anthropology, and archaeology. Prereq: Anthropology major, or consent of instructor.

ANT 515 PHONOLOGICAL ANALYSIS. (3) An investigation of speech-sounds and systems of speech-sounds. Articulatory phonetics, analysis of phonological systems, phonological theories. Includes fieldwork on the phonology of a non-Indo-European language; within a given academic year, the same language served as the basis for ANT 515, English, or German. Prereq: ANT/ENG/LIN 515 and English, or German. Prereq: ANT/ENG/LIN 515 or English, or German. (Same as ENGLISH 515.)

ANT 519 HISTORICAL AMALGAMATION. (3) Emphasis on the systematic interrelationships of morphemes within words and sentences. Practical training in the writing of grammars and dictionaries, and in exposure to various theses in historical linguistics. Prereq: ANT 220, or consent of instructor. (Same as ENGLISH 519.)

ANT 523 APPLIED ANTHROPOLOGY. (3) Principles of policy research and intervention in cultural anthropology, with attention to the theoretical and ethical basis of such research and its social application. Interventions considered include research and development anthropology, action anthropology, community development, community advocacy anthropology and culture brokerage. Prereq: Nine hours of cultural anthropology or consent of instructor.

ANT 525 SOCIOLINGUISTICS OF APPLACACIA. (3) A sociological study of selected social issues facing Appalachian communities, with an emphasis on placing regional political economy, social issues, and cultural issues in a political economy. Prereq: Sociology or Anthropology senior major or minor. Appalachian Studies minor; graduate student status; or consent of instructor.

ANT 538 BEYOND ECONOMICS, BEYOND GROWTH: ANTHROPOLOGY’S CRITIQUE OF ANTI-SOCIAL SCIENCE. (3) The development of various theoretical approaches to the cross-cultural study of economic systems and inquiry into the relationship between economic systems and the other systems within a society. Prereq: Nine hours of cultural anthropology or consent of instructor.

ANT 541 ARCHAEOLOGICAL METHOD AND THEORY. (3) Overview of concepts and methodologies of archaeology as a scientific discipline within the social sciences. Attention given to the basic principles and recent advances of archaeological fieldwork and post-field analysis. Prereq: ANT 240 and six hours of cultural anthropology or archaeology courses, or consent of instructor.

ANT 543 CULTURAL RESOURCE MANAGEMENT. (3) Introduction to the theoretical approaches and applied research management as it has developed in the historic preservation movement in the United States. The course is designed to work in concert with the development of the contemporary legal tools. The implications of these for the field evaluation of sites is presented. Prereq: Nine hours cultural anthropology or archaeology, or consent of instructor.

ANT 545 HISTORICAL ARCHAEOLOGY. (3) Historical archaeology applies archaeological methods and techniques to the remains of societies that have written histories. The course introduces students to the history and theoretical development of the discipline, and to the variety of the data sources used by historical archaeologists. Particular attention is paid to the ways in which historical archaeologists use material culture to address research issues of interest in anthropology, history, and other relevant disciplines.

ANT 550 SYMBOLS AND CULTURE. (3) Examines the ways in which symbolic systems create the meanings through which we experience the world. The course will explore symbols and symboling behavior from a humanistic perspective, and will present examples of non-Western symbolic systems. Prereq: ANT 220 or consent of instructor.

ANT 555 EASTERN NORTH AMERICAN ARCHAEOLOGY. (3) An introduction to the cultures of eastern United States with emphasis on interpretation of prehistory in Ohio River Valley. Prereq: ANT 240 and six hours of archaeology or cultural anthropology, or consent of instructor.

ANT 558 ADVANCED TOPICS IN ANTHROPOLOGY. (3) Selected topics of theoretical or methodological importance in anthropology. Prerequisites may vary by semester based on the topic of relevance. Refer to Schedule of Classes for topics. May be repeated for a maximum of six credits. Prereq: Consent of instructor.

ANT 560 GRAPHOMETHIC WORKSHOP. (1-4) May be repeated three times to a maximum of 12 credits. Prereq: Major in anthropology, standing of 3.0 in the department and consent of instructor.

ANT 582 SENIOR INTEGRATIVE SEMINAR. (2-6) Seminar focusing on current issues in anthropology. Purpose is to provide a format in which advanced undergraduates can integrate knowledge acquired in previous anthropological coursework and evaluate their understanding of anthropology as a whole. Prereq: Consent of instructor. May be repeated for a maximum of 12 credits. Prereq: Consent of instructor.

ANT 585 FIELD LABORATORY IN ARCHAEOLOGICAL RESEARCH. (3-6) Practical supervised training in field in archaeological research methods and techniques, problem analysis, field laboratory procedures, recording methods. Laboratory, 210-40 hours per week. May be repeated to a maximum of 12 credits. Prereq: Consent of instructor.
ANT 600 PRACTICUM IN TEACHING ANTHROPOLOGY. (1) Guided practical experiences in teaching, supervised with group discussions of teaching practice and selected reading on lecture technique, course development, test writing and other skills for participation in the profession. May be repeated to a maximum of three credits. Prereq: Graduate status in anthropology or consent of instructor.

ANT 601 THEORIES AND CONCEPTS IN ANTHROPOLOGY. (3) This course is an intensive examination of the theoretical perspective in anthropology to be given to the study of the foundations of anthropological theory, emphasis will be placed on contemporary concerns in anthropology as illustrated through the contributions of key researchers. Prereq: Admission to Graduate Program or approval of instructor.

ANT 602 SEMINAR IN CULTURE CHANGE. (1-3) An in-depth examination of the various approaches to the study of long-term culture change in past and present societies. This course stresses interdisciplinary, problem-oriented research with regard to culture change. Topics also are placed on the development of writing skills, oral presentations, professional research papers, research design and communication, and critical thinking. Prereq: Permission of the Anthropology graduate program and ANT 601; consent of instructor.

ANT 603 HUMAN BIOLOGY IN CONTEXT OF SOCIOCULTURAL CHANGE. (3) This course explores the relationship between society, culture, and human biology in a cross-cultural setting. Emphasis will be placed on the development of writing skills, oral presentations, professional research papers, research design and communication, and critical thinking. Prereq: Admission to the Anthropology graduate program and ANT 601; consent of instructor.

ANT 604 SOCIOLOGICAL DIMENSIONS OF COUNSELING. (3) This course begins with discussion of the major theoretical approaches to the study of social organization, and examines key concepts which are central to understanding the role of gender. A thematically focused approach throughout the course is the inherent tension between individual behavior (agency) and social structure. Prereq: Graduate standing in Anthropology.

ANT 607 FOOD RELATED BEHAVIORS. (3) This team-taught course will provide background in topics and methods in food behavior in Anthropological and Nutritional Sciences courses and other interested students. The course will follow a problem-based learning approach, and will consist of 3 out of 4 modules in any given year. The first year of the course provides social and cultural perspectives on Food, Psychological Perspectives on Food and Food Behaviors, Challenges to Food Security, and International Issues in Nutrition. (Same as NFS 607, NSF 607, BSC 607.)

ANT 620 TOPICS AND METHODS OF EVALUATION. (3) An examination of a subset of evaluation methods, topics, and problems. An introduction into the area with minimal emphasis on quantitative methods. The course is designed to provide: a perspective from which evaluation studies may be viewed; and, to provide experiences for those who will learn from or conduct evaluations. Prereq: Consent of instructor, and a basic course in statistics or research methods. (Same as EDF 620/PEP 620.)

ANT 621 ADVANCED TOPICS AND METHODS OF EVALUATION. (3) Advanced study of evaluation methods and techniques with an emphasis on quantitative methodology. State the art the ideas and methods of conducting evaluation studies and analyzing data from those studies. Emphasis is placed on designing research. Prereq: Those who are conducting or will conduct evaluation studies. Prereq: A basic course in statistics or its equivalent; EDF/PEP 620/SOC 622, and consent of instructor.

ANT 637 SOCIOCULTURAL DIMENSIONS OF ECONOMIC DEVELOPMENT. (3) Examination of cultural, social and economic conditions in lesser developed countries. Discussion of the various socioeconomic and cultural theories of change and developments, and of alternative policies for the world of the future. Considers the possible roles for social scientists in policy formulation and application. Prereq: Six graduate credits in social sciences or consent of instructor. (Same as SOC 637.)

ANT 639 AGING IN CROSS-CULTURAL PERSPECTIVE. (3) These are critical questions, modeling, and personal explorations. The course will involve extensive reading and discussion of a selected contemporary literature on socio-cultural aspects of aging. As part of this there will be a thorough examination of such foundational concepts as culture, ethnicity and “race,” facilitating critical use of these concepts by students. There will be a number of presentations by researchers experienced in doing age research in cross-cultural settings. Each student is asked to select a topic in the sociocultural aspects of aging and will be given an explanation that is consistent with the cross-cultural focus of the course. The course is intended as a course for the gerontology and health Ph.D. Program. The content is multicultural, problem oriented, and research oriented. Prereq: Consent of instructor.

ANT 640 SCIENCE, AGRICULTURE, AND DEVELOPMENT. (3) An in-depth examination of the interrelations between science, agriculture, and development. Both domestic and international issues are explored. Prereq: Graduate standing in the social or agricultural sciences. (Same as SOC 640.)

ANT 641 GENDER ISSUES IN DEVELOPMENT. (3) An examination of the role of gender in development. Prereq: Graduate standing in the social or agricultural sciences or permission of the instructor. (Same as SOC 641.)

ANT 645 ANTHROPOLOGY AND DEVELOPMENT. (3) This course will introduce students to the fundamentals of epidemiology, as the methodological approach, which underlies biomedical research, and will enable students to understand that the methodologies of epidemiology and anthropology complement each other in the study of health and disease. The course will examine the points of similarity and difference between the two in terms of their shared concern for the importance of examining sociocultural phenomena in order to better understand the origins of disease. The course will explore the tension between dichotomies such as quantitative vs. qualitative, and the ways such dichotomies are used in the research process. Prereq: Permission of instructor. (Same as BSC 645.)

ANT 646 GLOBAL HEALTH-PEOPLE, INSTITUTIONS AND CHANGE. (3) This course presents two historical studies of health in an international context, attending to ways in which anthropological study can contribute to better understanding of health and development. It will have a dual focus. It will deprive western concepts and explore both indigenous and biomedical approaches. Health topics may include: international health crises or epidemic, international and chemical medicine, and health and illness by body and an international, ethnographic perspective. Second, the course will explore the culture of international health agencies, e.g., WHO, UNICEF, etc. Prereq: Permission of instructor.

ANT 650 THEORY IN ARCHAEOLOGY. (3) This seminar will focus on ethnoarchaeological theory with specific emphasis on the discipline of anthropological archaeology in the New World. Particular schools and trends in contemporary archaeology and theory, as well as current approaches, as discussed in detail. Prereq: ANT 541 or consent of instructor.

ANT 651 ARCHAEOLOGICAL DATA ANALYSIS. (3) This course covers methods and techniques used by archaeologists to analyze archaeological data and then follow fieldwork. These procedures, usually consisting of data processing and classification, are often undertaken in the field as data are being collected by archaeologists. This course is also an examination of the basic goals of this course. May be repeated a maximum of six credits. Prereq: ANT 541 or consent of instructor.

ANT 659 DEMOGRAPHIC SOCIOARCHAEOLOGY. (3) A seminar which examines the theory and methodology used by archaeologists to study population aggregates ranging from individual behavior to the development of political forms in complex societies around the world. Prereq: ANT 541 or consent of instructor.

ANT 663 PREHISTORIC ECONOMICS. (3) This seminar examines the theory and methodology used by archeologists to study and understand the culture of past societies. Discussion examines forms of subsistence and craft production and systems of resource distribution and exchange. Prereq: ANT 541 or consent of instructor.

ANT 664 ARCHAEOLOGY OF POLITICAL SYSTEMS. (3) This course is designed to study the archaeology of political systems. The goals are to explore the role of the political in researching event and process in the evolution of political organization and social integration. A corollary goal is to examine the empirical evidence available on the impact of political evolution. It is not intended as a comprehensive coverage of all theories and methods. The emphasis is rather on the rise and development of political forms in complex societies around the world. Prereq: ANT 541, ANT 602 or consent of instructor.

ANT 660 ETHNOGRAPHIC RESEARCH METHODS. (3) Intensive graduate seminar in which students develop skills in ethnographic data collection and analysis. The aim of the course is to explore the processes through which ethnographers collect data and then transform materials of ethnographic research into analyses and interpretations. We will give careful consideration to the process of writing and issues specific to writing ethnographic. Prereq: Graduate standing in Anthropology or permission of instructor.

ANT 661 ETHNOGRAPHIC DATA ANALYSIS. (3) RESEARCH DESIGN. (3) Seminar designed for the individual student research centering on the relationship between theory, methods, and reality; how to better design anthropological inquiry. Prereq: One year of graduate work in Anthropology and consent of instructor. Prereq: Consent of instructor. (Same as SOC 664.)

ANT 664 FARMING SYSTEMS RESEARCH METHODS. (3) A critical analysis of the concepts, methods, and practices of farm systems research. Prereq: Consent of instructor. Prereq: Graduate standing in the social or agricultural sciences. (Same as SOC 664.)

ANT 671 CULTURAL RESOURCE MANAGEMENT CLERKSHIP. (1-3) Practical experience in aspects of the cultural resource management program at the State Archaeology Laboratory. Works in the Office of State Archaeology (OSA), Museum of Anthropology, and the program for Cultural Resource Assessment (PCRA). Students are assigned tasks at each work assignment and are provided through a one-semester rotation of work experience. Prereq: Consent of instructor. (Same as SOC 663.)

ANT 672 SEMINAR IN APPLIED ANTHROPOLOGY. (3) Seminar discussion and group project in research in the applications of social anthropology theory and methods to the solution of institutional, community, regional or national problems. Attention will be given to ethics, to the role attributes of the applied anthropologi-
ANT 766 GENDER, ETHNICITY AND HEALTH. (3) The ethnographic exploration of the anthropology of health and medical anthropology. We will examine the interconnections between gender, ethnicity, and illness in relation to the resources available and the treatment modalities called upon by people in different social locations within the United States, and internationally. We will also look at the symbolic import given to different phenomena related to the body, disease, and healing. The course will draw heavily upon the ethnographic literature, develop conceptual accounts of gender, ethnicity, class, and health. Prereq: Permission of instructor.

ANT 767 DISSERTATION RESIDENCE CREDITS. (1-6) May be repeated to a maximum of 12 hours. 

ANT 768 RESIDENCE CREDIT FOR DOCTORAL STUDENTS. (0-12) May be repeated indefinitely.

ANT 770 TOPICAL SEMINAR. (Subtitle required.) (3) Independent study of a topic in anthropology. Prereq: Graduate standing in Anthropology, or consent of instructor. 

ANT 774 FOOD AND FOOD SECURITY IN A CHANGING WORLD. (3) This cross-cultural seminar explores the biocultural interactions among the food and the social, cultural, political and economic factors that shape food-related behaviors and nutritional status of populations. Topics include the social role of food, food beliefs and ideology, the political economy of malnutrition, development strategies and food security, and methods in nutritional anthropology research. Readings and discussions are research focused and approached from different theoretical perspectives. Prereq: ANT 601 or consent of instructor. (Same as BSC 774.)

ANT 775 CULTURES AND POLICIES OF FOOD PRODUCTION. (3) This course takes a cross-cultural approach to understanding how reproduction and associated phenomena (family formations and the social location of the reproductive individual) are roles in the multiplication of that object with reference to issues of site and served determinations.

ANT 806 INTRODUCTION TO DEPENDENCY BEHAVIOR. (3) The course is designed to explore theories of dependency behavior by examining the concept of dependency as it can be applied to the study of various phenomena including alcohol use and abuse; dependence on other psychosubstances; institutional dependency; dependency in work settings; and poverty and welfare. Prereq: Consent of instructor. (Same as SOC/PsyS/RC 786.)

ANT 790 RESEARCH PROBLEMS IN ANTHROPOLOGY. (1-6) Independent study of a topic in anthropology with qualified staff members. May be repeated to a maximum of nine credits. Prereq: ANT admission into the program.

APP 101 INTRODUCTION TO APPALACHIAN STUDIES. (3) A multidisciplinary introduction to Appalachian culture, history and society. Examines how Appalachia came to be viewed as a distinct region; looks at its place in American life. 

APP 200 TOPICS IN APPALACHIAN STUDIES (Subtitle required). (3) Study of topics relevant to Appalachian Studies, such as gender, folklore, literature, religion, community development, public policy, social policy, and politics. May be repeated to a maximum of twelve credits under different subtitles. Prereq: APP 200 or consent of instructor.

APP 201 INTRODUCTION TO ARCHITECTURE. (3) Introduces technological concepts of building and investigates the spatial and functional language of architecture with visual and physical analyses of various building structures and materials through the use of computers, field observations, etc. Prereq: Admission to the School of Architecture. 


APP 325 ENVIRONMENTAL CONTROLS II. (3) A continuing investigation into ideas and issues raised in ARC 323, Environmental Controls I. Prereq: ARC 323. Paired with: ARC 355.

APP 354 DESIGN STUDIO V. (6) Studies the formal characteristics of site and context together with laws and principles of building and nature, ecology, and the ways these forces influence architecture. The students investigate applications of current technology and building systems. Studio: 12 hours per week. Prereq: ARC 253 with a grade of C or better. Paired with course: ARC 352.

APP 355 DESIGN STUDIO VI. (6) Explores the architectural problem of a large-scale interior space conditioned by social and cultural programs. Special problems in lighting and acoustics will be addressed along with long-span structure. Attention will be paid to issues of scale, life safety social interaction and public circulation. Studio: 12 hours per week. Prereq: ARC 354 with a grade of C or better. Paired with course: ARC 333.

APP 399 TOPICS IN ARCHITECTURE. (3) This course number is to allow for new and experimental classes to be introduced into the architectural curriculum on an ad hoc basis. The course, if adopted on a permanent basis, will be formally proposed for addition to the College curriculum and assigned a new, permanent number. May be repeated to a maximum of six credits under different subtitles. 

ARC 101 DRAWING I: OBSERVATIONAL FREEHAND DRAWING. (3) Focuses on the techniques of observational drawing. Structure, space, contour, line, and color are explored through study of the human body, still life, landscape, and architectural spaces with attention to their application to the architectural experience. Studio: 4 hours per week. Prereq: consent of instructor. 

ARC 102 DRAWING II: OBSERVATIONAL FREEHAND DRAWING. (3) A continued focus on the content of Drawing I with particular attention to basic notions of descriptive geometry. Students are introduced to three-dimensional perspective drawing, rendering in color, and shade and shadow. Studio: 4 hours per week. Prereq. ARC 101.

ARC 111 INTRODUCTION TO HISTORY AND THEORY OF ARCHITECTURE. (3) Introduces enduring themes and generative forces in the history and theory of architecture by examining the cultural periods of various societies in different time periods. Prereq: Admission to College of Architecture or permission of dean.

ARC 121 HISTORY AND THEORY OF ARCHITECTURE. (3) The first of four courses in the survey of the history and theory of architecture in the West, with attention to the achievements in Mesopotamia and Egypt, the empires of the Greeks and Romans, and medieval Europe. Prereq: ARC 120.

ARC 151 DESIGN STUDIO I. (6) Students develop technical, mental, and aesthetic skills through the use of drawings, computer-aided methods of analysis. Prereq: ARC 102.

ARC 203 DIGITAL MEDIA WITHIN ARCHITECTURE. (3) A workshop that introduces students to the creative, analytical and generative use of digital computing in the design of architecture. Lecture: one hour; laboratory: four hours per week. Prereq: Admission to the School of Architecture.

ARC 204 DRAWING III: COMPUTER-ASSISTED DESIGN. (3) This course number is to allow for new and experimental classes to be introduced into the architectural curriculum on an ad hoc basis. The course, if adopted on a permanent basis, will be formally proposed for addition to the College curriculum and assigned a new, permanent number. May be repeated to a maximum of six credits under different subtitles. Prereq: TBA.

ARC 205 DRAWING IV: COMPUTER-ASSISTED DESIGN. (3) An effective course offered in conjunction with a sponsored travel program requiring student observation of and interaction with the current environment in the European cultural replication. The sponsors of each travel program tailor the course to suit the needs of the program as it relates to a particular locale. Studio: 12 hours per week. Prereq: ARC 204.

ARC 206 DIGITAL VISUALIZATION. (3) A continued exploration of computer visualization with special emphasis on a specific software package. Lecture: four hours per week. Laboratory: four hours per week. Prereq: ARC 405.

ARC 410 INDEPENDENT STUDY. (3) An independent study of a topic in history and/or theory, wherein a student will research a specific topic agreed upon with a designated faculty member of the college. Laboratory, six hours per week. May be repeated to a maximum of six credits under different subtitles. 


ARC 435 MATERIALS AND METHODS OF CONSTRUCTION. (3) An intensive exploration of materials and building techniques with special consideration given to the properties of materials and their uses in various methods of construction. Prereq: ARC 231.

ARC 456 DESIGN STUDIO VII. (6) A studio explores various design topics including building technology, design, digital visualization, historic preservation, and human settlement. Studio: 12 hours per week. Prereq: ARC 355 with a grade of C or better. 

ARC 475 DESIGN STUDIO VIII. (6) This studio explores various design topics including building technology, furniture design, digital visualization, historic preservation, and human settlement. Studio: 12 hours per week. Prereq: ARC 455 or ARC 456 with a grade of C or better.

ARC 461 TRAVEL SEMINAR: URBAN CONTEXT (Off Campus). (3) An alternative seminar offered in conjunction with a sponsored travel program, which investigates factors and considers theories of urban form in the context of the selected location. Lecture: two hours; laboratory: two hours per week. Prereq: ARC 315.

ARC 499 TOPICS IN ARCHITECTURE. (3) This course number is to allow for new and experimental classes to be introduced into the architectural curriculum on an ad hoc basis. The course, if adopted on a permanent basis, will be formally proposed for addition to the College curriculum and assigned a new, permanent number. May be repeated to a maximum of six credits under different subtitles. Prereq: TBA.
ARC 511 HISTORY AND THEORY SEMINAR: PRE-20TH CENTURY ARCHITECTURE (Subtitle required). (3) One of a series of graduate seminars devoted to investigations and analyses of pre-twentieth century architecture. Subtitle required. May be repeated to a total of 6 credit hours under different subtitles. Prereq. Junior or Senior standing with six credit hours of architecture history or art history at the 200 level or above, graduate standing, or consent of instructor.

ARC 512 HISTORY AND THEORY SEMINAR: MODERN (Subtitle required). (3) One of a series of graduate seminars devoted to investigations and analyses of modern architecture. Subtitle required. May be repeated to a total of 6 credit hours under different subtitles. Prereq. Junior or Senior standing with six credit hours of architecture history or art history at the 200 level or above, graduate standing, or consent of instructor.

ARC 513 HISTORY AND THEORY SEMINAR: CONTEMPORARY (Subtitle required). (3) One of a series of graduate seminars devoted to investigations and analyses of contemporary architecture. Subtitle required. May be repeated to a total of 6 credit hours under different subtitles. Prereq. Junior or Senior standing with six credit hours of architecture history or art history at the 200 level or above, graduate standing, or consent of instructor.

ARC 514 HISTORY AND THEORY SEMINAR: URBAN DESIGN AND MAISONETTE STRUCTURES. (3) One of a series of graduate seminars devoted to investigations and analyses of urban forms. Subtitle required. May be repeated to a total of 6 credit hours under different subtitles. Prereq. Junior or Senior standing with six credit hours of architecture history or art history at the 200 level or above, graduate standing, or consent of instructor.

ARC 523 STUDIES IN TOWN DESIGN. (3) An exploration of structural concepts for the materials of steel and wood, including considerations of load and resistance as factors in architectural design. Prereq. ARC 553. (Same as ENV 434.)

ARC 534 ADVANCED STUDIES IN STRUCTURAL SYSTEMS. (3) An exploration of structural systems relating to construction with the materials concrete and masonry, including discussion of stress and load as considerations in architectural design. Prereq. ARC 553. (Same as ENV 434.)

ARC 599 TOPICS IN ARCHITECTURE. (3) This course is not to allow new and experimental classes to be introduced into the architectural curriculum on an ad hoc basis. The course, if adopted on a permanent basis, will be formally proposed once every five years and must meet the criteria of ARG 750. May be repeated to a maximum of six times. Prereq. ARC 553. (Same as ENV 434.)

ARC 611 BUILDING SYSTEMS INTEGRATION. (3) Graduate level study of the art and science of building design with emphasis given to developing a comprehensive, multi-system, architectural project. Paired with: ARG 750.

ARC 632 SPECIAL TOPICS IN ENVIRONMENTAL CONTROLS. (3) Advanced studies in human environmental design. Topics for research and development will include sustainability, energy, infrastructure, sanitation and water, lighting, and acoustics. Subtitle required. Prereq. ARC 332 and ARC 333.

ARC 634 ARCHITECTURAL DETAILING. (3) A study of the art and technique of complete building design through detailed design examples and theoretical analyses. Prereq. Completion of all technical requirements for BA in Architecture or equivalent and admission to the Master of Architecture program. Prereq. Admission to the M.Arch. program.

ARC 641 PROFESSIONAL PRACTICE. (3) An exploration of professional and ethical responsibilities of the architect as they pertain to their profession, the legal and moral matters of practice and management. Prereq. Admission to the M.Arch. program.

ARC 642 PROFESSIONAL INTERNSHIP. (3-6) A professional internship with a professional architectural firm in which the student, along with a faculty advisor, will determine specific experimental and educational goals to be met. Laboratory work with selected firm (per hour/week for duration of internship). Prereq. Admission to the M.Arch. program.

ARC 658 DESIGN STUDIO VIII. (3) This graduate level studio explores various design topics including building technology, furniture design, visual digitalization, historic preservation, and historic context. Studio. 12 hours per week. Prereq: ARG 457 with a grade of C or better.

ARC 659 DESIGN STUDIO IX. (3) This graduate level studio explores various design topics including building technology, furniture design, visual digitalization, historic preservation, and historic context. Studio. 12 hours per week. Prereq: ARG 658 with a grade of C or better.

ARC 689 TOPICS IN ARCHITECTURE. (3) This course is not to allow new and experimental classes to be introduced into the architectural curriculum on an ad hoc basis. The course, if adopted on a permanent basis, will be formally proposed once every five years and must meet the criteria of ARG 750. May be repeated to a maximum of six times. Prereq. ARC 553. (Same as ENV 434.)

ARC 691 SPECIAL TOPICS. (3) A series of seminars devoted to investigations of theories of architecture. Prereq. ARC 325.

ARC 692 STUDIES IN HISTORY AND THEORY OF ARCHITECTURE I: URBAN FORM. (3) A series of seminars devoted to investigations of topics in urban forms. Prereq. ARG 325.

ARC 693 STUDIES IN HISTORY AND THEORY OF ARCHITECTURE II: THEORIES. (3) A series of seminars devoted to investigations of the means by which architecture is made. Prereq. ARG 324.

ARC 694 STUDIES IN HISTORY AND THEORY OF ARCHITECTURE III: TECHNIQUES. (3) Focuses on the rigor of observational drawing. Structure, contour, line, and color are explored through study of the human body with emphasis on the application to the architectural structure. Studio. three hours per week. Prereq. Admission to the College.

ARC 698 DRAWING STUDIO I. (3) A continuation of Drawing Studio I with further development of the themes of two-dimensional representation integral to the architectural experience. Studio, three hours per week. Prereq. ARC 825.

ARC 699 DRAWING STUDIO II. (3) A continuation of Drawing Studio II with further development of the themes of two-dimensional representation integral to the architectural experience. Studio, three hours per week. Prereq. ARC 825.

ARC 699 RE-PRESENTATION. (3) An exploration of 20th century thematic concepts through reading, visual analyses and an interpretation and re-presentation of these themes as viewpoints of contemporary design. Prereq. ARG 750.

ARC 699 COMPUTERS AND ARCHITECTURE. (3) Introduces computers with an emphasis on the exploration of their applications in architecture. Students will be exposed to the creative potential of computers in design as well as to their analytic capabilities. Lecture, two hours; laboratory, three hours per week. Prereq. Restricted to Architecture and/or Landscape Architecture students only.

ARC 715 MATERIALS AND METHODS OF CONSTRUCTION. (3) An introduction to the techniques of building, with attention to their influence on the formal language of architecture. Considerations of the properties of material and methods of construction through analyses of selected works, lectures, and tours of construction sites.

ARC 720 STRUCTURAL DESIGN AND ANALYSIS I. (3) Conception of building forms and behaviors as total structural systems. This uses mathematics and physics to determine forces, stresses, and deformations in structural systems. Prereq. MA 109 or 123, MA 112 and PHY 201 or their equivalents.

ARC 721 STRUCTURAL DESIGN AND ANALYSIS II. (3) A continuation of ARC 830 with an introduction to computer-aided design. Prereq. ARC 830.

ARC 722 STRUCTURAL DESIGN AND ANALYSIS III. (3) Design of steel structures and timber structures. Prereq. ARC 831.

ARC 723 STRUCTURAL DESIGN AND ANALYSIS IV. (3) Design of reinforced concrete structures, masonry structures, and foundations. Prereq. ARC 832 or consent of instructor.

ARC 804 ENVIRONMENTAL CONTROLS. (3) An introduction to the social, political, and environmental environment and the mechanical and electrical systems of buildings. Prereq. ARC 730.

ARC 835 ENVIRONMENTAL CONTROLS. (3) A continuation of ARC 834. Prereq. ARC 834.

ARC 836 BUILDING SYSTEMS INTEGRATION. (3) A continuation of ARC 839, with an emphasis on the integration of materials, structural systems, and environmental controls. Detailed investigations of the interpretation and employment of materials and systems of construction, with attention to the manner in which they order architecture. Prereq. ARG 829 and ARC 835; coreq. ARC 833.

ARC 850 PROFESSIONAL PRACTICE. (3) Professional practice and community and community, procedural matters pertaining to practice and management.

ARC 860 TECHNICS AND KINEMATICS I. (3) Full-scale exploration of two-dimensional representations of materials, structural systems, and environmental controls. Detailed investigations of the interpretation and employment of materials and systems of construction, with attention to the manner in which they order architecture. Prereq. ARG 829 and ARC 835; coreq. ARC 833.

ARC 861 BASIC ARCHITECTURAL DESIGN. (3) Exploitation of varieties of architectural experiences through technical- and individual experimentation. Studio. eight hours per week. Prereq. Admission to the College of Architecture.

ARC 862 BASIC ARCHITECTURAL DESIGN II. (3) A continuation of Basic Architectural Design I with further exploration of tectonics and experimentation through various architectural experiences. Studio. eight hours per week. Prereq. ARC 861 with at least a grade of C.

ARC 863 ARCHITECTURAL DESIGN STUDIO I: MODERN SPACE. (3) Offers the student an understanding of architectural language based on the 20th century tectonic and thematic explorations, as developed by Cubism and Neoplasticism. Projects explore their aesthetic and poetic possibilities, with an emphasis on coherence in space, structure, and program. Studio. twelve hours per week. Prereq. ARC 962 with at least a grade of C.

ARC 864 ARCHITECTURAL DESIGN STUDIO II: SINGLES AND MULTIPLE OBJECTS. (3) Extends the consideration of the issues related to the isolated object to a consideration of the object in context, and focuses attention on strategies to obtain thematic unity in a manner that enables the student to develop an architectural language. Studio. twelve hours per week. Prereq. ARC 963 with at least a grade of C.

ARC 865 ARCHITECTURAL DESIGN STUDIO III: CONTEXT. (3) Emphasizes the problems of site and context and the way they influence the specificity of the object as well as the programmatic structure of the design. Studio. 12 hours per week. Prereq. ARC 964 with at least a grade of C.
ASC 378 ANIMAL NUTRITION AND FEEDING. (4)

Prerequisite: ASC 101, ASC 102 or equivalent or permission of instructor. A study of the principles of selection, breeding, feeding and management of sheep, dairy cattle, meat cattle, swine, and poultry. Students will have the opportunity to discuss the topic of the day and potential employment opportunities in that field with the speaker. Prereq: ASC 101, ASC 102 or equivalent; three hours; laboratory, three hours per week. Prereq: ASC 866 with at least a grade of C.

ASC 404G SHEEP SCIENCE. (4)

A study of the principles of selection, feeding, and management of sheep. Students will have the opportunity to discuss the topic of the day and potential employment opportunities in that field with the speaker. Prereq: ASC 101, ASC 102 or equivalent; three hours; laboratory, three hours per week. Prereq: ASC 106.

ASC 407 MEAT SCIENCE. (4)

A historical perspective of the meat industry together with major changes in the meat industry and the health issues and ethical considerations that have occurred. Students will have the opportunity to discuss the topic of the day and potential employment opportunities in that field with the speaker. Prereq: ASC 101, ASC 102 or equivalent; three hours; laboratory, three hours per week. Prereq: ASC 866 with at least a grade of C.

ASC 323 ANIMAL GENETICS. (3)

The composition and nutritional characteristics of common feedstuffs. Students will have the opportunity to discuss the topic of the day and potential employment opportunities in that field with the speaker. Prereq: ASC 101, ASC 102 or equivalent; three hours; laboratory, three hours per week. Prereq: ASC 362 and ASC 380 or consent of instructor.

ASC 360 ANIMAL PRODUCTION. (3)

A study of the principles of selection, breeding, feeding and management of sheep, dairy cattle, meat cattle, swine, and poultry. Students will have the opportunity to discuss the topic of the day and potential employment opportunities in that field with the speaker. Prereq: ASC 101, ASC 102 or equivalent; three hours; laboratory, three hours per week. Prereq: ASC 866 with at least a grade of C.

ASC 380 FEEDS AND FEEDING. (3)

A study of the principles of selection, breeding, feeding and management of sheep, dairy cattle, meat cattle, swine, and poultry. Students will have the opportunity to discuss the topic of the day and potential employment opportunities in that field with the speaker. Prereq: ASC 101, ASC 102 or equivalent; three hours; laboratory, three hours per week. Prereq: ASC 866 with at least a grade of C.

ASC 382 ANIMAL PRODUCTION. (3)

A study of the principles of selection, breeding, feeding and management of sheep, dairy cattle, meat cattle, swine, and poultry. Students will have the opportunity to discuss the topic of the day and potential employment opportunities in that field with the speaker. Prereq: ASC 101, ASC 102 or equivalent; three hours; laboratory, three hours per week. Prereq: ASC 866 with at least a grade of C.

ASC 398 SPECIAL PROBLEM IN ANIMAL SCIENCE/FOOD SCIENCE. (1-4)

A study of the principles of selection, breeding, feeding and management of sheep, dairy cattle, meat cattle, swine, and poultry. Students will have the opportunity to discuss the topic of the day and potential employment opportunities in that field with the speaker. Prereq: ASC 101, ASC 102 or equivalent; three hours; laboratory, three hours per week. Prereq: ASC 866 with at least a grade of C.
BA 102INTRODUCTION TO BIOTECHNOLOGY ENGINEERING. (1) An introduction to the engineering of food and fiber production and processing systems. Professionalism and the engineering approach with emphasis on design and project management.

BA 103 ENERG Y IN BIOLOGICAL SYSTEMS. (2) This course introduces the concepts of energy transport in biological systems including the study of thermodynamics, heat transfer, psychometrics, fluid flow, and transport processes. Two hours per week. Prereq: MA 113.

BA 201 ECONOMIC ANALYSIS OF BIOSYSTEMS. (3) The financial and managerial aspects of biosystems in evaluating policies and risk analysis. Prereq: MA 113.

BA 202 PROBABILITY AND STATISTICS. (3) Introduction to biosystems engineering: problem solving, decision making, and required programming, probability, and statistics. Emphasis on application of these skills to biosystems applications. Two hours; laboratory, two hours per week. Prereq: MA 113 and sophomore standing.

BA 305 DC CIRCUITS AND MICROELECTRONICS. (3) An introduction to the use of digital electronics and integrated circuits in solving biosystems engineering problems. Digital circuits, microprocessors, microcontroller interfacing, transistors, signal conditioning and control applications are discussed. Lecture, two hours; laboratory, two hours per week. Prereq: EE 305 or EE 306.

BA 400 SENIOR SEMINAR. (1) A course for senior students in biosystems and agricultural engineering who wish to improve their skills and to develop independent research capabilities. Prereq: Senior standing and enrollment in the COM 199.

BA 402 BIOSYSTEMS AND AGRICULTURAL ENGINEERING DESIGN. (3) A course for senior students in BAE for starting students to solve open-ended problems. Students will use learned engineering principles to produce actual designs which will be both created and analyzed in BAE 403. Engineering standing in BAE or consent of instructor.

BA 403 BIOSYSTEMS AND AGRICULTURAL ENGINEERING DESIGN. (2) Student design teams evaluate and enhance design solutions, fabricate prototypes, execute performance tests, analyze results, and develop final engineering specifications. Oral and written reports are required. Prereq: BAE 402.

BA 417 DESIGN OF MACHINE SYSTEMS. (3) A study of design for biosystems. Design features associated with production and processing equipment for food and fiber products and an introduction to conceptualization, analysis and engineering of these design assignments will be two hours; laboratory, two hours per week. Prereq: EM 313, ME 330, engineering standing or consent of instructor.

BA 427 STRUCTURES AND ENVIRONMENT ENGINEERING. (3) This course teaches load estimate for light timber and concrete structures and introduces the design of heating, cooling, and ventilation systems in these structures. Prereq: EM 302; prerequisite: ME 325, or consent of instructor.

BA 435 DRAINAGE SYSTEM ENGINEERING FOR BIOSYSTEMS. (3) A study of the characteristics; treatment and utilization principles; and analysis of design for systems of managing waste from the production and processing of food and fiber. Lecture, two hours; laboratory, three hours per week. Prereq: MA 214 and BIO 108.

BA 437 LAND AND WATER RESOURCES ENGINEERING. (3) The hydrologic cycle is studied and design procedures are developed for flood control structures, water table management, wetlands, irrigation, and erosion control systems. Prereq: CE 341 or ME 330.

BA 438 FUNDAMENTALS OF GROUNDWATER HYDROLOGY. (3) The first course in the physics of saturated flow in porous media. Topics include groundwater occurrence, Darcian flow, well hydraulics, and surface environmental flow in the vadose zone. Prereq: ME 330 or CE 341 or consent of instructor, and engineering standing. (Same as CE 400.)

BA 450 ENGINEERING FOUNDATIONS. (3) Design principles and equipment selection for the most common foundation systems, with an emphasis on the environmental and cognitive aspects of soil-matter interactions in engineering. Topics will include the design of fluid flow systems, transient heat transfer, heat exchangers, psychrometrics, and refrigeration. Prereq: ME 325 and engineering standing.

BA 450 SPECIAL PROBLEMS. (1-3) An intensive study of a single problem of interest to the student in particular and engineering is required. May be repeated to a maximum of six credits. Consent of instructor required.

BA 502 MODELING OF BIOLOGICAL SYSTEMS. (3) The course will focus on the mathematical description and computer simulation of the complex interactions involved in biological systems. Computer modeling will be used as a tool to analyze and suggest design changes to optimize performance. Prereq: Bio sci elective, ME 340, and two "core" courses.

BA 513 SOIL DYNAMICS IN TILLAGE AND TRACTION. (3) A course for advanced undergraduate and graduate students which presents the principal factors affecting soil-matter interactions. Performance characteristics of tractive devices are presented along with the corresponding soil compliance. Soil response to mechanical disturbance or tillage; lecture, two hours; laboratory, two hours per week. Prereq: EM 313, BAE 417.

BA 515 FLUID POWER SYSTEMS. (3) Analysis and design of fluid power systems used in agriculture, industrial, and processing equipment. Selected topics to include: positive displacement components, control devices, actuators, fluid transmission system dynamics. Lecture: two hours; laboratory, two hours per week. Prereq: ME 330, ME 340 and engineering standing.

BA 517 OFF-ROAD VEHICLE DESIGN. (3) Morphology, operational characteristics, and design considerations of off-road vehicles used in agriculture, forestry and construction. This course provides an introduction to conceptualization, analysis and design of these vehicles. Topics to be addressed include: engine performance and design, transmission, braking, suspension and steering characteristics, chassis dynamics, electronics, hydraulic, and human factors.

#BA 532 INTRODUCTION TO STREAM RESTORATION. (3) An introduction to stream measurements and management, including stream restoration projects. Topics include channel function, stream habitat, stream morphology, and stressors. Prereq: CE 341 (or equivalent) and engineering standing or consent of instructor.

BA 536 FLUIDS HYDRAULICS. (3) Rainfall physics, principles of erosion on upland areas and construction sites, stability of soil, sediment transport, river mechanics, reservoir sedimentation. Prereq: CE 341 or ME 330 and engineering standing. (Same as CE 546.)

BA 537 IRRIGATION AND DRAINAGE ENGINEERING. (3) Principles of water management, including plant growth and development, tillage, center pivot, trickle, subirrigation and residential and commercial irrigation systems. Lecture, two hours; laboratory, two hours per week. Prereq: ME 330 or CE 341 or consent of instructor.

#BA 538 GIS APPLICATIONS FOR WATER RESOURCES. (3) This course studies principles, methodology and analysis of geographic information systems and spatially-referenced data unique to water resources and hydrologic modeling. Lectures will explore the latest concepts, geographic modeling relationships and data sources and will be complimented with computer-based laboratory exercises. Prereq: BAE 437, CE 460C, or consent of instructor.

BA 545 ECONOMIC ANALYSIS AND ENVIRONMENTAL ENGINEERING. (3) Analysis of flow in closed conduits and natural and artificial open channels. Design of hydraulic structures. Prereq. CE 541 and engineering standing or consent of instructor.

BA 549 BIOLOGICAL PROCESS ENGINEERING. (3) An analysis of processing operations for the conversion or generation of biotechnological materials. Topics include thermodynamics, heat transfer, mass and energy balances, and reaction kinetics to biological process operations such as sterilization, fermentation, product recovery, rehydration, evaporation, and refrigeration. Applications include biomedical, food processing, and biochemical and biotech production from biomass. Prereq: BAE 447 or consent of instructor.

BA 556 SOLID AND HAZARDOUS WASTE MANAGEMENT. (3) Study of the generation, management of solid and hazardous wastes. Application of engineering principles to the collection, transport, processing, resource recovery and ultimate disposal of these wastes. (Same as CE 556.)

BA 580 HEATING, VENTILATING AND AIR CONDITIONING. (3) A course emphasizing the use of thermodynamics, fluid mechanics, and heat transfer principles in thermal environmental design. Building energy requirements will be emphasized. A minimum of six credits will be required for the thermal comfort criteria will be studied. Prereq. BAE 427 or ME 521 or consent of instructor. (Same as ME 580.)

BA 589 PLANT AND ANIMAL ENVIRONMENTS. (3) A study of the thermal, moisture, light, and gaseous components of plant and animal environments with emphasis on interactions between these biological systems and their environments. Prereq. BAE 427 or consent of instructor.

BA 599 TOPICS IN AGRICULTURAL ENGINEERING. (2-3) A detailed investigation of a topic of current significance in agricultural engineering such as: design of small earth dams, vacuum dehydrating systems, systems for the collection and environmental control in green houses, sprinkler irrigation, energy conversion in agriculture, bio-simulation. May be repeated to a maximum of six credits. Three credits may be earned under the same title. A particular topic may be offered at most twice under the BAE 599 number. Prereq: Variable; prerequisite will be identified.

BA 618 ADVANCED PLANT, SOIL AND MACHINERY RELATIONSHIPS. (3) A consideration of fundamental concepts of energy and materials in the identification and measurement and the machines needed in the development of new machines for agriculture. Lecture, two hours; laboratory, two hours. Prereq: BAE 625.

BA 625 TOPICS IN ADVANCED ENVIRONMENT CONTROL AND ANALYSIS (Subtitle required). (3) A study of current research in environment control and analysis of agricultural, commercial and residential structures. May be repeated three times for a maximum of nine credits, but not more than three credits may be earned by the same student. Prereq: Senior standing in environment control and HVAC; BAE/ME 580, or consent of instructor.

BA 638 GROUNDWATER HYDROLOGY. (3) The processes of saturated and unsaturated groundwater flow, the formulation of boundary value problems, and some analytical methods of solution. Solutions, solutins involving the Fourier transform and the Fourier sine and cosine transforms. The Boltzman transformation, development of the Philip's solution for horizontal vertical flow, solution for the saturated and unsaturated groundwater pollution problem and some analytical methods of solution. The semigroup solution of the resulting evolution problem for confined flow in the saturated and unsaturated groundwater systems and methods of solution. Students will be required to solve the resulting evolution problem using the finite difference method. Prereq: BAE 642 or consent of instructor.

BA 642 OPEN CHANNEL FLOW. (3) The principles and fundamentals of open channel flow. Topics include uniform flow, varied flow, steady and unsteady flow, energy dissipator, flow transitions, controls, analytical and numerical solution methods, ID and 2D problems. Prereq: CE 541 or consent of instructor. (Same as CE 642.)

BA 647 SYSTEM OPTIMIZATION. (3) An introduction to linear and nonlinear optimization and their use in engineering design. Emphasis on numerical approaches and use of optimization methods for engineering systems (e.g. biological, mechanical, chemical). Prereq. CE 525. This course is not open to students who are taking a mathematics course beyond MA 214 or equivalent. (Same as CE 647.)

BA 648 ENERGY AND MASS TRANSFER IN BIOLOGICAL SYSTEMS. (3) A comprehensive and in-depth study of the principles of energy and mass transfer as they apply to the processing of agricultural and biological materials. Prereq: BAE 447 or consent of instructor.

BA 653 WATER QUALITY IN SURFACE WATERS. (3) Water quality requirements for various beneficial uses. Analysis of dissolved and particulate organic and inorganic constituents, biological oxygen demand and photodecomposition; their effects on the physical, chemical and biological quality of waters in streams, lakes, reservoirs, estuarine and other surface waters. Europathic prerequisites. Prereq. BAE 214 and CE 451, or consent of instructor. (Same as CE 653.)
BIO 101 WAYS OF DOING BIOLOGY. (1) Through lecture and small group discussions, students will gain a better understanding of the various academic programs in the life sciences across campus. Information will also be provided about research opportunities and possibilities. Pass/fail only.

BIO 102 HUMAN ECOLOGY. (1) A study of the interrelationships of man, populations, space, energy, food, mineral resources and other life on earth. Not for life science majors.

BIO 103 BASIC IDEAS OF BIOLOGY. (4) Introduction to fundamental biological topics that are relevant to both plants and animals - cell structure and function, molecules important to living things, metabolism, heredity, environment. Not for life science majors.

BIO 104 ANIMAL BIOLOGY. (3) An introduction to the major areas of interest in animal biology, e.g., life processes, the cell, development, heredity, body systems, evolution, taxonomy, physiology, ecology. Prereg: High school chemistry recommended.

BIO 106 PRINCIPLES OF PLANT BIOLOGY. (3) The principles underlying the structural physiology and reproduction of flowering plants. Prereg: High school chemistry recommended.

BIO 110 INTRODUCTION TO HUMAN BIOLOGY AND HEALTH. (3) This course provides the student with a general overview of the basic dimensions of health (biological, psychological and emotional) and the applications of these dimensions to personal wellness.

BIO 111 GENERAL BIOLOGY LABORATORY. (1) Laboratory techniques and apparatus related to biology. Prereg: Concurrent enrollment in BIO 101 or consent of instructor.

BIO 150 PRINCIPLES OF BIOLOGY. (2) The first semester of an integrated one-year sequence (BIO 150 and 152) that is designed to develop an appreciation of biological principles as they relate to the life of the cells and molecular levels. Similarities and differences in structure and function of simple and complex cells will be covered along with theories on the origin and evolution of life systems. Prereg: CHE 105, or Math ACTE score of 26 or above plus concurrent enrollment in CHE 105, or chemistry placement test passed plus concurrent enrollment in CHE 105.

BIO 151 PRINCIPLES OF BIOLOGY LABORATORY. (2) An introductory laboratory in which biological systems are investigated at a cellular and molecular level. Laboratory may be placed in CHE 105, or Math ACTE score of 26 or above plus concurrent enrollment in CHE 105, or chemistry placement test passed plus concurrent enrollment in CHE 105.

BIO 153 PRINCIPLES OF BIOLOGY LABORATORY. (2) The second semester of an integrated one-year sequence (BIO 150 and 152) that is designed to develop understanding and appreciation for the diverse forms of plant and animal life, and their relationships to each other and to their environment. Structure and function relationships will be explored at many levels of organization: cell, tissue, organ, organism, population and community. Prereg: CHE 105, or Math ACTE score of 26 or above plus concurrent enrollment in CHE 105, or chemistry placement test passed plus concurrent enrollment in CHE 105.

BIO 180 SUPPLEMENTAL BIOLOGY WORKSHOP. (1) Cooperative workshop offering only as an optional supplement to certain biology lecture courses. Offered only on a pass/fail basis. Coreq: BIO 150.

BIO 198 SUPPLEMENTAL BIOLOGY WORKSHOP. (1) Cooperative workshop offering only as an optional supplement to certain biology lecture courses. Offered only on a pass/fail basis. Coreq: BIO 150.

BIO 199 RESEARCH EXPERIENCE IN BIOLOGY. (0-1) Participation in biological research under the direction of a faculty mentor in Biology or a related field. A research contract signed by the student and the director must be approved by the Director of Undergraduate Studies in Biology. Offered pass/fail only.

BIO 208 PRINCIPLES OF MICROBIOLOGY. (4) The course emphasizes the biological principal techniques. Emphasis is placed on structural, functional, ecological and evolutionary relationships among microorganisms. Emphasis is placed on the ultrastructure of cell organelles in plants and animals as a framework for understanding the compartmentalized nature of cell activity. Prereg: BIO 150, 151, 152, 153 (or equivalent). Coreq: CHE 250 or equivalent.

BIO 225 ECOLOGICAL ANTHROPOLOGY. (4) An introductory course to the basic concepts in ecology. Topics covered include: adaptations of organisms to the environment; factors that influence the distribution and abundance of species; population structure, dynamics, and regulation; community development (succession); structure and function; food webs; energy flow, nutrient cycling, ecosystem productivity. Prereg: Four hours per week. Prereg: BIO 150 and BIO 152 or consent of instructor.

BIO 303 COMPARATIVE ANATOMY. (4) Comparative study of the anatomy of vertebrates with emphasis on evolutionary change, adaptive and functional significance of structural organization and basic biological processes. Laboratory studies on representative vertebrates involving dissection, models, and demonstrations. Lecture: three hours; laboratory, four hours per week. Prereg: BIO 151, 152, 153 or BIO 104, 105 or equivalent course in animal biology.

BIO 350 ANIMAL PHYSIOLOGY. (4) An introduction to the basic principles of animal physiology. Emphasis will be placed on the ultrastructure of cells and tissues as a framework for understanding the compartmentalized nature of cell activity. Prereg: CHE 150, 151, 152, 153 (or equivalent). Coreq: CHE 250 or equivalent.

BIO 351 PLANT KINGDOM. (3) An introductory survey of the morphology, taxonomy, life histories and biological relationships of all plant groups comprising the plant kingdom. Lecture: two hours; laboratory, two hours per week. Prereg: One year of introductory Biology or consent of instructor.

BIO 370 BEHAVIORAL ECOLOGY AND SOCIOBIOLOGY. (4) This course will explore the selective forces influencing animal behavior, such as foraging, predator avoidance, mate choice, parent care, and social interaction. Specific phenomena to be explored include the evolution of optimal foraging and searching strategies, extravagant male characteristics, female preferences, conflict behaviors, reproductive behavior, altruism, and developmental plasticity. Students will be expected to read outside material, to think carefully, logically, and critically about ideas, and to ask questions and defend their views in class. Prereg: CHE 100, 150 (BIO 150/152).

BIO 396 RESEARCH IN BIOLOGY. (1-3) An independent research project in an area of biology under the direction of a faculty mentor. The research project must be the culmination of a School of Biological Sciences or in other biological units on campus. A research contract signed by the student and the faculty research mentor must be submitted and approved by the Director of Undergraduate Studies in Biology. May be repeated to a maximum of 12 credits, but a maximum of only 6 credits may be used the satisfy the requirements for BIO 208 or a BBA major. Prereg: CHE 150, 151, 152, 153. Completion of at least one of the Biology core courses (Cell Biology, Genetics, Physiology, Ecology) is strongly recommended.
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BIO 401G SPECIAL TOPICS IN BIOLOGY

This course provides a small group of students an opportunity to study special topics not covered in regular course offerings. Prereq: Consent of instructor. (Same as BIO 601G.)

BIO 402G TAXONOMY OF VASCULAR PLANTS.

A survey of the identifying characteristics and evolutionary relationships of vascular plants, concentrating on important families in the temperate flora of eastern North America. Students will gain experience in species identification and in the use of important tools and references of field botany. Lecture, three hours; laboratory, three hours; plus two Saturday field trips. Prereq: BIO 150, 151, 152 and 153; or one course in introductory botany; or consent of instructor. (Same as NRC 420G.)

BIO 425 BIOLOGY SEMINAR: (Subtitle required.)

This seminar develops effective analysis, presentation, and discussion skills required of Biology majors by exploring various life science topics of interest to faculty and students. Satisfies seminar requirements for Biology majors and may be repeated for a maximum of 2 credits under a different subtitle. Prereq: Senior standing in Biology recommended. BIO 150-155 or equivalent. Additional prerequisite by instructor when topic is selected. (Every semester.)

BIO 430G PLANT PHYSIOLOGY.

Basic principles of plant physiology. The physiological processes of growth, reproduction, assimilation, transpiration, photosynthesis, and respiration will be studied. Prereq: BIO 150, 151, 152, 153 (or equivalent); CHE 230/231 (or equivalent); BIO 315 (or equivalent) or consent of instructor. (Fall semester.)

BIO 446 PRINCIPLES OF GENETICS.

An introduction to laboratory and computer simulation in ecology. Exercises and demonstrations will be provided to students in 10 different research laboratories (e.g., molecular and evolutionary ecology, evolutionary biology) and the comparative analysis among groups of Vertebrates, using a broad range of species. Prereq: BIO 140, 141, or consent of instructor. (Same as EEB 461.)

BIO 449G IMMUNOBIOLOGY.

A survey of theories and mechanisms of immunity including: nature of the immune system, antigens and antibodies, immune cells, immunocompetent tissues, allergic reactions, tumor immunology and transplantation immunology. Prereq: BCH 401 (may be taken concurrently); BIO 208 or BIO 308 or consent of instructor. (Same as M 494G.)

BIO 499 BIOLOGY RESEARCH SEMINAR.

A seminar in current research. Students who have taken BIO 395 will work with students from other seminars and with BIO 395 experience will interact with student colleagues and an experienced research mentor. Prereq: Past or current enrollment in BIO 395.

BIO 502PRINCIPLES OF SYSTEMS, CELLULAR AND MOLECULAR PHYSIOLOGY.

A course in the general physiology of flowering plants, emphasizing the effect of physical and biotic factors on plants and environment. Emphasis will be placed on the physiological and cellular mechanisms of important plants, along with the physiological principles that govern their behavior. Prereq: BIO 104, 105 or BIO 107 or BIO 152, 153, or consent of instructor. (Same as PGY 542G.)

BIO 530COMPARATIVE PHYSIOLOGY.

Physiological mechanisms by which animals cope with different environmental conditions such as temperature, salinity, respiration, temperature regulation, and sleep. Prereq: BIO 140, 141, or consent of instructor. Prereq: BIO 315 or consent of instructor. (Same as PGY 525.)

BIO 551LIFE CYCLE ECOLOGY

OF FLOWERING PLANTS.

An introduction to the life cycles of flowering plants and their adaptations to the physical factors of the environment. Some of the major constituents of plant ecology will be emphasized. Prereq: BIO 140, 141, or consent of instructor. (Fall semester.)

BIO 553FISH BIOLOGY.

The course explores the biology of fishes from an evolutionary perspective. Lectures cover phylogeny, functional morphology, ecology, population genetics, and behavior of fishes and their evolutionary relatives. Laboratory exercises include development of a fish collection; experiments in fish physiology, behavior and ecology; and field trips to sampling and observing different habitats. Prereq: Lecture, three hours; laboratory, two hours per week. Prereq: BIO 150, 151, 152 and 153 or consent of instructor. (Fall semester.)

BIO 555VIRUS BIOLOGY.

An intensive study of the virology of important virus families. Prereq: BIO 140, 141, or consent of instructor. (Fall semester.)

BIO 556COMMUNICATION BIOLOGY.

Animals sense and respond to numerous signals from their environment by using sensory modalities attuned to visual, auditory, chemico-electromagnetic, and tactile cues. Prereq: BIO 140, 141, or consent of instructor. (Fall semester.)

BIO 559ORNITHOLOGY.

A state of the science survey of bird behavior, development, evolution, and classification. Prereq: BIO 140, 141, or consent of instructor. (Fall semester.)

BIO 563 PARASITOLOGY.

Protozoan, helminth and arthropod parasites of mammals and domestic animals, emphasis on epidemiology, etiology, and control. Prereq:同意 of instructor. (Same as ENT 563.)

BIO 564 INSECT TAXONOMY.

A study of the classification, collection, preparation, and identification of insect species. Prereq: Consent of instructor. (Same as ENT 564.)

BIO 567 APPLICATIONS OF GENETICS.

Course content may be selected to emphasize the analysis of disease and population genetic data using example traditional and advanced techniques. Prereq: BIO 360 or BIO 304 or equivalent and an introductory course in statistics.

BIO 569 INSECT BEHAVIOR.

The principles of insect behavior will be stressed using insects as example. Prereq: Physiology, mechanisms, behavioral ecology, evolution and life history of insect behavior will be covered. Prereq: One year of biology laboratory recommended. (Fall semester.)

BIO 573 MYCOLOGY.

A survey of the physiology, morphology, life histories, and evolutionary relationships of the various groups comprising the fungi. Prereq: Three hours; laboratory, two hours per week. Prereq: Introductory biology sequence (six hours) or consent of instructor.

BIO 582 Virology.

Physical, chemical and biological properties of viruses. Modes of replication and control of gene product formation displayed by representatives of animal, plant and virus groups. Prereq: BIO 304 or equivalent and biochemistry or equivalent strongly recommended, or consent of instructor. (Fall semester.)

BIO 595 IMMUNOBIOLOGY.

Laboratory in immunology and serology. Preparation, standardization, and use of biological products; serology; Laboratory, four hours; PRH 540 or equivalent can be counted or consent of instructor. (Same as M 595.)

BIO 601G SPECIAL TOPICS IN MOLECULAR AND CELLULAR BIOLOGY.

Each semester five distinguished scientists visit the UK campus to deliver a series of three formal lectures each and participate in numerous informal contacts with the graduate students. The emphasis is on the presentation of the most current advances (often unpublished) in specific topics in molecular and cellular biology. Prereq: BIO 140 or equivalent or consent of instructor. (Can be repeated to a maximum of 6 credits. Same as BCHM/PLP/PPA 601.)

BIO 605 EMPirical METHODS IN ECOLOGY AND EVOLUTION.

This course provides students with hands-on experience in a diverse array of modern research methods for ecologists and evolutionary biologists, including techniques used in molecular genetics, chemical-ecology, behavioral studies, motion analyses, using high-speed video, image analyses for morphometrics and color, and field techniques in both aquatic and terrestrial systems. Lecture, one hour; laboratory, three hours per week. Prereq: BIO 325 or FOR 340 or EN 665 or consent of instructor. (Same as EN 605.)

BIO 606 CONCEPTUAL METHODS IN ECOLOGY AND EVOLUTION.

This course provides students with hands-on experience in a diverse array of conceptual research techniques used by ecologists and evolutionary biologists. The focus will be on optimization methods used for understanding animal and plant behavior, life histories, and on methods for assessing population trends and dynamics. Mathematical techniques used will include graphical analyses; matrix analysis, graphs, and computer-based tools. The course will consist of collaborative modeling projects, in which small groups of students will address an empirical or conceptual contemporary research problem and will report their results in a public talk and a project writeup. Prereq: One year of calculus and BIO 325 or FOR 340 or EN 665 or consent of instructor. (Same as ENT 606.)

BIO 607 ADVANCED EVOLUTION.

This course covers advanced topics in evolutionary biology, concentrating on questions central to the understanding of general evolutionary processes. Phenomena occurring both within populations (e.g., selection, evolution, speciation, and adaptation), and species (e.g., gene flow, competition) will be addressed. Special attention will be given to modern research approaches and techniques including mathematical genetics, measurement of selection, phylogenetic analyses of comparative data and molecular systematics. Prereq: One year of calculus and genetics (BIO 360 or equivalent) and BIO 508 or consent of instructor. (Same as ENT 607.)

BIO 608 Behavioral Ecology and Life Histories.

This course covers an evolutionary approach to examine animal behavior and life histories. Topics addressed include: the optimality approach, constraints on optimality, kin and group selection, predator and prey behavior, social and mating systems, and life history evolution. Prereq: BIO 325 and one semester of calculus; or consent of instructor. (Fall semester.)

BIO 609 POPULATION AND COMMUNITY Ecology.

This course discusses the processes that determine population distributions and dynamics and community structure for both plants and animals. Consideration is given to plant and animal populations, community stability, community diversity and stability, ecological succession, population interactions (competition, predation, mutualism), coevolution, and the effects of spatial and temporal heterogeneity on population and community patterns. Prereq: BIO 325 or FOR 340 or consent of instructor. (Same as ENT 609.)
BIO 611 BIOPATHOLOGY. (3) The course will survey communicable and noncommunicable diseases and their mechanisms by which various biological, chemical, and physical agents injure susceptible hosts and the complex biochemical and immunological reactions which occur in response to these agents. Eukaryotic and prokaryotic animals and microorganisms will be involved by an analysis of selected human diseases and animal model systems with particular emphasis on the events at the molecular and cellular level. Prereq: Specific course in BHR 494 or equivalent and consent of instructor. (Same as M S 611.)

BIO 612 BIOLOGY OF AGING. (3) A multidisciplinary approach to the study of how the process of aging affects biological systems. Coverage will be quite broad and includes topics such as subcellular and cellular aging, genetics, immunology, anatomy and physiology, animal model of aging, etc. Prereq: Enrollment in a graduate program of a biomedical science department or consent of instructor. (Same as ANA/MED/618.)

BIO 615 MOLECULAR BIOLOGY. (3) An integrative and functional approach to the regulatory aspects of DNA, RNA and proteins in prokaryotic and eukaryotic cells. Lectures and discussions of primary literature. Prereq: A course in genetics (e.g. BIO 304) and a course in nucleic acids and elementary molecular biology (e.g. BCH 502) or consent of instructor. (Same as BCH/M 615.)

BIO 616 MOLECULAR NEUROBIOLOGY. (4) This course provides knowledge base and analytical skills in the field of molecular neuroscience. Emphasis on localization of structures and function of eukaryotic chromosomes. Emphasis is placed on the effects of various dysregulations as well as the impact of Mendelian genetics and in plant and animal breeding. Lecture; three hours; laboratory; two hours. Prereq: ABT/TASC/ENT 360 or BIO 304. (Same as PLS 618.)

BIO 620 PLANT MOLECULAR BIOLOGY. (3) This course is intended to be a treatment of current concepts of plant molecular biology. Lectures will be based on course, supplemented by handouts and reading lists. The course will deal as much as is possible with topics that are unique to plants. Current aspects of molecular biology that are relevant to the course will be covered in the first part of the course; however, these lectures will not be a review of topics that should have been retained from introductory genetics. Also, they will substitute for a molecular biology course. Prereq. One semester of undergraduate genetics and biochemistry or consent of instructor. (Same as PLS 620.)

BIO 621 TOPICS IN MODERN BIOLOGY (Subtitle required). (3) A course for students in the biological and related sciences to be taught on various topics by specialists in their fields. Designed to give the student the most up-to-date information on the various topics. May be repeated to a maximum of 12 credits under different subtitles. Prereq: Consent of instructor.

BIO 622 PHYSIOLOGY OF PLANTS I. (3) A physiologically oriented treatment of central topics in modern plant physiology. Topics will include: plant-cell biology, ion transport, water and carbon translocation, respiration and photosynthesis. Prereq: BIO 4300 or equivalent and consent of coordinator. Prereq or concurrent: BCH 607. (Same as FOR/PLS 622.)

BIO 623 PHYSIOLOGY OF PLANTS II. (3) A physiologically oriented treatment of central topics in modern plant physiology. Topics will include: plant hormones, an introduction to plant biotechnology, senescence and abscission, stress physiology, phytochrome-photomorphogenesis-photoperiod, nitrogen and sulfur metabolism. Prereq: BIO 4300 or equivalent or consent of coordinator. Prereq or concurrent: BCH 607. (Same as FOR/PLS 623.)

BIO 625 INSECT-PLANT RELATIONSHIPS. (3) This course examines the natural history, ecology, and evolution of insect/plant relationships. Topics include mechanisms and theory of plant defense, behavioral and non-defense adaptations of herbivores, and selective behavior. Prereq: BCH 607. (Same as FOR/PLS 625.)

BEME 481G TOPICS IN BIOMEDICAL ENGINEERING. (3) Detailed investigation of a topic of current significance in biomedical engineering such as biomaterials, biosensors or soft tissue biomechanics, rehabilitation engineering, cardio-pulmonary systems analysis, biomedical imaging. Prereq: Consent of instructor.

BEME 482D NAVIGATION FOR BIOENGINEERING (Subtitle required). (1-3) A multidisciplinary approach combining engineering principles for system analysis and control, knowledge of biological control mechanisms, and their experimental application to problems in the development of engineering neural networks for control applications. Topics include: equivalent circuit models for biological neurons and networks; non-linear differential equation representations, biological control strategies for rhythmic movements, design and development of control algorithms for neural prosthetic devices and implementation. Prereq: EE 422G and Engineering Standing or consent of instructor. (Same as EE 579.)

BIO 605 BIOMEDICAL SIGNAL PROCESSING. (3) Contouring and discontinuous properties of biological signals Transform, Laplace Transform, Z-Transform, correlation and spectral analysis, digital filters. Prereq: EE 305 or equivalent, BME 501 or equivalent. BME 605, BME 610, BME 640 recommend.

BIO 642 NAVIGATION GUIDES FOR BIOENGINEERAL PRODUCTION DEVELOPMENT. (3) This course teaches engineers how biomedical product designs are influenced by government regulations, economic issues, and ethical concerns.

BIO 661 BIOMATERIALS SCIENCE AND ENGINEERING. (3) Study of biological and man-made materials that perform, improve, or restore natural functions. Structure and properties of connective tissue and community implanted musculoskeletal systems and bioequivalency and nonstationary signals. Prereq: BME 605, BME 610, EE 640 recommended.

BIO 662 TISSUE-IMPLANT INTERFACE. (3) Study of the interface between implants and host tissues from both the medical and biological perspectives. Prereq: BME 605, 610, 640, 650, 681.

BIO 768 RESIDENCE CREDIT FOR MASTER'S DEGREE. (1-6) May be repeated to a maximum of 12 hours. Prereq: Consent of instructor.

BIO 786 RESIDENCE CREDIT FOR DOCTOR'S DEGREE. (0-12) May be repeated indefinitely.

BIO 770 SENIOR IN BIOMEDICAL SCIENCE. (1) Reports and discussions of current research and literature in biomedical science. Required of all graduate students. May be repeated to a maximum of 8 credits. Prereq: Graduate standing in biomedical sciences.

BIO 772 SENIOR IN MICROBIOLOGY. (0-1) Review of current literature in microbiology: presentation of papers on student projects, review of assigned topics; may include papers on meetings of national and international scientific and professional societies and symposia. Required of all graduate students. Two hours per week. May be repeated nine times for a maximum of 10 credits. (Same as MI 772.)

BIO 777 SENIOR IN PLANT PHYSIOLOGY. (1) Reports and discussions of current research and literature in plant physiology. May be repeated for a maximum of 8 credits. (Same as PLS 773.)

BIO 782 ADVANCED ViroLOGY. (3) Current trends in virology. Topics include DNA tumor viruses, RNA tumor viruses, retrovirology, and other area of research. Emphasis of molecular mechanisms. Prereq: BIO 582, Adequate biochemistry and genetics strongly recommended, or consent of instructor. (Same as VLS 782.)

BIO 784 RESEARCH IN BIOMEDICAL SCIENCE. (1-9) Independent research work in biology. May be repeated to a maximum of 24 credits. Prereq: Consent of instructor. (Same as MI 784.)

BIO 786 RESIDENCE CREDIT FOR MASTER'S DEGREE. (1-6) May be repeated to a maximum of 24 credits. Prereq: Consent of instructor and graduate standing in BME.

BME BIOMEDICAL ENGINEERING. (3) Detailed investigation of a topic of current significance in biomedical engineering such as biotissue biomechanics, rehabilitation engineering, cardio-pulmonary systems analysis, biomedical imaging. Prereq: Consent of instructor.

BME 481G TOPICS IN BIOMEDICAL ENGINEERING. (3) Detailed investigation of a topic of current significance in biomedical engineering such as biotissue biomechanics, rehabilitation engineering, cardio-pulmonary systems analysis, biomedical imaging. Prereq: Consent of instructor.
BME 765 ALTERNATIVE AND AUGMENTATIVE COMMUNICATION. (3)
A detailed investigation of the use of augmentative and alternative communication systems with individuals with moderate to severe communication disorders. Prereq: EDS 375 or equivalent graduate status in CODI or NRH, or consent of instructor.

BME 464 LANGUAGE DISORDERS IN SCHOOL-AGE POPULATIONS. (3)
A detailed investigation of language disorders and language intervention in school-age populations. Includes an in-depth discussion of prevention strategies, service delivery models, assessment tools and paradigms, and intervention strategies. Provides practice in self-directed inquiry. Prereq: Graduate status in CODI or NRH consent of instructor.

BME 468 LANGUAGE DISORDERS THROUGH THE LIFESPAN. (3)
Introduction to the normal development of language in individuals born through adulthood and from culturally and linguistically diverse backgrounds. Emphasis on strategies to deal with disorders in voice, fluency, and articulation. Prereq: BME 465, 467, 469, and consent of instructor. CODI majors only.

BME 621 CLINICAL EXPERIENCE IN COMMUNICATION DISORDERS. (1)
Experience with children and adults in the assessment and management of communication and swallowing disorders. Lecture, one hour; practicum, four hours per week. Up to 40 practicum hours per week (at site all day). Prereq: Graduate status in CODI, successful completion of 6 hours of graduate clinical practicum and consent of instructor.

BME 567 CLINICAL PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY. (3)
Covers the full range of communication disorders in various settings such as schools, clinics, home health care agencies, long term care, and/or hospitals. Lecture: 1 hour; practicum: 12 hours. May be repeated to a maximum of 12 hours. Prereq: EDS 376 or consent of instructor; CODI majors only.

BME 568 CLINICAL EXPERIENCE IN COMMUNICATION DISORDERS. (1)
Experience with children and adults in the assessment and management of communication and swallowing disorders. Lecture, one hour; practicum, four hours per week. May be repeated to a maximum of 12 credits. Prereq: Graduate status in CODI, 461 or equivalent, and CD 654.

BME 659 CLINICAL ROTATION IN SPEECH-LANGUAGE PATHOLOGY. (3)
Supervised clinical experience in the evaluation and management of children and adults. Up to 40 laboratory hours per week (at site all day). Lecture: 1 hour; practicum: 40 hours per week. Prereq: Graduate status in CODI, successful completion of 6 hours of graduate clinical practicum and consent of instructor.

BME 425 APPLIED PHONETICS. (3)
An introduction to current research in phonetics and phonology. Prereq: Undergraduate or master's level graduate CODI or NRH majors only. Consent of instructor.

BME 492 SEMINAR. (0)
Discussion of advanced and current topics in biomedical engineering. Prereq: Permission of instructor. May be repeated indefinitely.

BME 469 MANAGEMENT OF TECHNOLOGY. (3)
Successful development of new technologies relies upon knowing which technology advance, the ultimate scientific limits of that technology, and the forecasted rate of technological change. This course presents curricula that explore the direction of technological change and how this affects the rate and extent of innovation. Prereq: BME 465 or consent of instructor. CODI majors only.

BME 762 RESIDENCY CREDIT. (1-3)
Residency credit for dissertation research after the qualifying examination. Students may register for this course registration for the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

BME 596 SPECIALTOPICS IN BIOMEDICAL ENGINEERING. (1-3)
Discussion of advanced and current topics in biomedical engineering. Individual work on research problems of current interest. May be repeated to a maximum of nine credits. Lecture/lab hour variable. Prereq: Approval of instructor.

BME 763 DISSERTATION CREDIT. (1-3)
Dissertation is completed and defended. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

BME 767 DISSERTATION RESIDENCY CREDIT. (1-3)
Dissertation is completed and defended. Prereq: Consent of instructor and graduate standing in BME.
CE 471G SOIL MECHANICS. (3) An introduction to the properties and hydraulic properties of soils and their relationship to settlement, stress distribution, earth pressure, bearing capacity and slope stability. Design of footing foundations and retaining walls. Written and oral presentations of student projects will be required. Lecture, three hours; laboratory, three hours per week. Prereq: EM 302 or consent of instructor. CE 382 and engineering standing, or consent of instructor.

CE 487G STEEL STRUCTURES. (3) Students will study the design and analysis of structural members such as beams, columns, beams-column, and bolted and welded connections. Analysis and design of composite steel/concrete beams. Tension, compression and closed section members, evaluation of instability of beams, columns, and plates in design. Plastic analysis and design of continuous structures. Introduction to computerized structural analysis. Lecture, two hours; laboratory, one hour. Prereq: CE 382 and engineering standing, or consent of instructor.

CE 503 CONSTRUCTION ESTIMATING. (3) Students will study the estimating and controlling the cost of construction projects. Emphasis on both quantity take-off and unit costs. Advanced applications of construction estimation. Prereq: CE 382 and CE 403. Lecture, two hours; laboratory, three hours per week. Prereq: CE 403 and engineering standing or consent of instructor.

CE 517 BOUNDARY LOCATION PRINCIPLES. (3) Principles of precision surveying techniques; records of real property; records searching, technical aspects of field work; preparation of descriptions and surveys reports, land data systems, legal aspects, spatial analysis. Prereq: CE 211 or CE 215, engineering standing or consent of instructor. CE 521 ENGINEERING ECONOMY. (3) Analysis of engineering alternatives in which the goal of economic efficiency is applied to engineering design. Prereq: Engineering standing.

CE 525 ENGINEERING COMPUTER APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS. (3) CE 525 focuses on GIS as a tool in Civil Engineering. The terms and vocabulary related to Geographic Information Systems are introduced. The management of spatial data, particularly those related to Civil Engineering, is covered. Students will collect data with a Global Positioning System (GPS). Students will be required to use the GIS ArcInfo to solve a specific individual spatial problem that they propose based on several Civil Engineering databases presented in class. Lecture, two hours; laboratory, three hours per week. Prereq: CE 211 or CE 215, engineering standing.

CE 531 GEOMETRIC DESIGN AND OPERATIONS OF ROADS. (3) Analysis of transportation facilities through a diagnostic study of transportation systems with emphasis on design, capacity and safety. Engineering practice oriented toward open-ended design solutions, mostly focused on roadway design. Prereq: CE 211, CE 331, and engineering standing.
CE 587 GEOTECHNICAL ENGINEERING. (3)
Application of the principles of soil mechanics and structural me-
chanics to the design and analysis of foundations, embankments, earth-
structures, and construction sites. Prereq: CE 471G or consent of in-
tstructor.

CE 590 ADVANCED STRUCTURAL ANALYSIS I. (3)
Study of the equations of motion and stability of beams, plates, con-
tainers, and shells. Prereq: CE 381 and prerequisite or concurrent CE
471G. (Same as BAE 617.)

CE 591 ADVANCED STRUCTURAL ANALYSIS II. (3)
Computational tools for statics, dynamics, and stability in struc-
tural engineering. Prereq: CE 471G and consent of instructor.

CE 592 GROUNDWATER HYDROLOGY. (3)
The equations of saturated and unsaturated groundwater flow, the
mathematical simulation of construction operations. Prereq: CE 403,
CE 503, or consent of instructor.

CE 593 GROUNDWATER AND SEEPAGE. (3)
The equations of saturated and unsaturated groundwater flow, the
mathematical simulation of construction operations. Prereq: CE 403,
CE 503, or consent of instructor.

CE 594 ADVANCED WATER QUALITY CONTROL I. (3)
Theory and practice of water and wastewater treatment with
emphasis on physical and chemical processes for municipal and
industrial wastewater treatment. Prereq: CE 451 or consent of in-
tstructor.

CE 595 INDEPENDENT WORK IN CE. (1-4)
Individual work on a selected problem in the field of civil engineering.
May be repeated for a maximum of six credits. Prereq: Consent of plas
tification chairperson and the instructor; with engineering
standing.

CE 596 PRESTRESSED CONCRETE. (3)
Fundamental basis and underlying principles for the analysis and
design of prestressed concrete members. Working stresses and ultimate
strength design methods, full and partial prestressing. Design for shear
and torsion, deflection, crack control, and long-term effects; and pre-
tensioning; construction equipment and methods, traffic safety, optimum
structural design, environmental impact analysis, systems analysis
and design. Prereq: CE 211, CE 381, CE 382, or consent of CE 471G and engineering
standing.

CE 598 DESIGN, CONSTRUCTION, AND MANAGEMENT. (3)
Design, analysis, and construction of flexible and rigid pavements,
resistance to cracking, flexible and rigid pavements, materials and their
properties, pavement design, and codes. Applications of various meth-
ods to structural buckling and interaction of buckling modes in design. Post-

CE 539 TRANSPORTATION SYSTEMS DESIGN. (3)
This course focuses on the design of urban interchanges and the
placement of ramp and road junctions on the urban road system.
Familiarity with traffic signal control is required. Prereq CE 341 or
equivalent and engineering standing or consent of instructor.

CE 542 OPEN-PIT ENGINEERING MATERIALS. (3)
Study of the generation and management of solid and hazardous
waste. Prereq: CE 211 and CE 331; CE 531 prereq or concur.

CE 549 ENGINEERING HYDRAULICS. (3)
Introduction to principles of fluidic geomorphology for application
in restored impaired streams. Topics include channel formation pro-
cesses (hydrology/hydrodynamics), stream assessment, sediment trans-
port, floodplain management, erosion control, habitat, and monitoring.
Prereq: CE 341 (or equivalent) and engineering standing or consent of
instructor. (Same as BAE 552.)

CE 550 ENVIRONMENTAL HYDROLOGIC PROCESSES. (3)
Rainfall physics, principles of erosion on upland areas and construct-
ions, stable channel design in alluvial materials, mechanics of sediment
transport, influences of vegetation and climate on ground water. Prereq:
CE 341 or ME 330 and engineering standing. (Same as BAE 556.)

CE 559 ENGINEERING HYDRAULICS. (3)
Nonlinear analysis of natural and artificial open channels. Design of hydraulic structures. Prereq: CE 541 and
engineering standing, or consent of instructor. (Same as BAE 545.)

CE 560 CONSTRUCTION MANAGEMENT. (3)
Management of construction projects: planning, estimating, sched-
uling and controlling; engineering costs; material management; construction
safety; management; construction labor relations; productivity; management; claims.
Prereq: CE 503, CE 505, or consent of instructor.

CE 562 WATER QUALITY CONTROL II. (3)
Introduction to principles of analytical chemistry and chemical hy-
drologic time series. Long-term trend, harmonic analysis of periodicity,
correlation, spectral analysis. Correlation and re-
expression. Linear and nonlinear analysis tools. Analysis of hydro-
logic time series in hydrology, real-time hydrologic forecast (Kalman filter), pattern recognition, and procedures for curve fitting and
 theoretical equations. Prereq: MA 214, CE 461G or equivalent. (Same as BAE 663.)

CE 565 WATER RESOURCES SYSTEMS. (3)
Application of systems analysis, mathematical modeling, and optimi-
ation to water resources management and design. Solution of engineering problems found in water supply, water quality, urban drainage, river basin design, and project management by use of
linear, nonlinear, and dynamic programming models. Prereq: or con-
course CE 421 and CE 569 or consent of instructor. (Same as BAE 665.)

CE 567 STORMWATER MODELING. (3)
Introduction to deterministic and parametric modeling approaches for
effectively simulating stormwater runoff and quality. Emphasis on modeling concepts and model formulation. Analysis of
deterministic component models and their linkage. Formation of exist-
ing hydrologic models and their application in special purpose
parameter optimization and regionalization. Demonstration of linkage between
the two approaches with illustrative examples. Prereq: CE 341 and
CE 461G or consent of instructor. (Same as BAE 667.)

CE 568 ADVANCED MECHANICAL BEHAVIOR. (3)
Introduction to the mathematical theory of flow through porous media. Flow through anisotropic, stratified and composite systems. Solution by flow net, conformal mapping and numerical methods. See page toward wells. Dewatering and
drainage of soils. Prereq: CE 471G or consent of instructor.

CE 571 GEOTECHNICAL ENGINEERING. (3)
Introduction to seismology. Dynamic and earthquake response of
soils using standard analysis. liquefaction of soils under cyclic loads:
requirements of design. The role of engineers in the design of
Earthquake resistant design of retaining walls, foundations, slopes, and
earth dams. The role of the geotechnical engineer in urban design.
Current state-of-the-art techniques in geotechnical earthquake engi-
neering. Prereq: CE 579.

CE 572 ADVANCED CONCRETE ENGINEERING MATERIALS. (3)
Fundamental aspects of mechanical behavior of civil engineering
materials. Rheology and fracture of asphalt and Portland cement con-
crete. Prereq: CE 421 or consent of instructor.

CE 573 ADVANCED STRUCTURAL ANALYSIS. (3)
Theory and application of energy principles for plane and space
structures; material and geometric nonlinearities; and nonlinear solu-
tion schemes. Prereq: CE 582 or consent of instructor.

CE 574 SLAB AND FOLDED PLATE STRUCTURES. (3)
Design and analysis of reinforced concrete floor slabs and folded
plates. Elastic and inelastic methods. Prereq: CE 562 or consent of
instructor.

CE 575 INTRODUCTION TO STORMWATER MANAGEMENT. (3)
An analysis of runoff from impervious surfaces and the growth of
civil engineering and the new discipline of stormwater management. Prereq: Consent of instructor.

CE 578 GEOTECHNICAL ENGINEERING. (3)
Study of the generation and management of solid and hazardous
waste. Prereq: CE 211 and CE 331; CE 531 prereq or concur.

CE 579 GEOTECHNICAL ENGINEERING. (3)
Environmental microbiology for engineering students with empha-
sis on biodegradation of chemicals used in the construction industry,
and industrial microbiology. Prereq: CHE 105 and 107, engineering
standing or consent of instructor.

CE 580 CIVIL ENGINEERING MATERIALS I. (3)
Introduction to the mechanical and physical properties of
concrete and cement based materials and hot mix asphalt (HMA).
Advanced topics related to high perfor-
mance concrete and advanced cementitious materials are covered in this course. Prereq: CE 381 and engineering standing.

CE 581 CIVIL ENGINEERING MATERIALS II. (3)
Determination of properties of cementitious materials and con-
crete mixture. Prereq: CHE 370 or consent of instructor.

CE 582 INTERMEDIATE STRUCTURAL ANALYSIS. (3)
Analysis of indeterminate, truss, frame and arch structures using
energy methods; strength of materials; and structural analysis meth-
ods; influence line functions for indeterminate structures; and use of available commercial structural analysis and
matrix operations. Prereq: CE 382 and engineering standing, or consent of instructor.

CE 583 DESIGN OF TIMBER AND MASONRY STRUCTURES. (3)
Current and historic design methods of buildings and their compo-
nents, including timbers, wood products, bricks, and concrete blocks.
Prereq: Courses in steel and reinforced concrete design at the senior
level, or consent of instructor. (Same as ARC 384.)

CE 585 CIVIL ENGINEERING FAILURES. (3)
Failure modes and modes of failure for civil engineering structures;
Failure types and mechanisms; Case studies and discussions on various
civil engineering failures. Prereq: CHE 382 or consent of instruc-
tor, and engineering standing.

CE 586 PRESTRESSED CONCRETE. (3)
Fundamental basis and underlying principles for the analysis and
design of prestressed concrete members. Working stresses and ultimate
strength design methods, full and partial prestressing. Design for shear and
torsion, deflection, crack control, and long-term effects; and pre-
tensioning; construction equipment and methods, traffic safety, optimum
structural design, environmental impact analysis, systems analysis
and design. Prereq: CE 211, CE 381, CE 382, or consensus of CE 471G and engineering
standing.

CE 589 DESIGN OF STRUCTURAL SYSTEMS. (3)
Design loads. Structural systems and bracing. Analysis and design of civil engineering systems for multiple project.
Written and oral presentations required. Prereq: CE 486G and
CE 487G, or consent of CE 579; or consent of instructor.

CE 590 INDEPENDENT WORK IN CE. (1-4)
Individual work on a selected problem in the field of civil engineering.
May be repeated for a maximum of six credits. Prereq: Consent of plas
tification chairperson and the instructor; with engineering
standing.
CHE 552 BIOLOGICAL CHEMISTRY II. (3) A fourth semester course in biological chemistry. Topics include lipid metabolism, biosynthesis and metabolism of nitrogen-containing compounds, storage and utilization of genetic information, immunology, and selected topics in analytical and molecular topics in biological chemistry. Prereq: CHE 232 and a physical chemistry course at or above the 400 level, or consent of instructor.

CHE 554 BIOLOGICAL CHEMISTRY LABORATORY. (2) An introductory biological chemistry laboratory course. Topics include molecular methods, electrophoresis, chromatography, and isolation and characterization of biological macromolecules. Prereq: CHE 232, CHE 351 or CVE 352, and a physical chemistry course at or above the 400 level, or consent of instructor.

CHE 555 HOMONUCLEAR NMR. (3) This course will give students hands-on experience with modern NMR experiments that are the mainstays of chemical structural analysis and biophysical studies of macromolecules and pharmaceuticals. Lecture: two hours; laboratory: three hours per week. Prereq: CHE 232 or CHE 236, and CHE 440G.

CHE 558 BIOMOLECULAR RECEPTORS AND CELL SIGNALS. (3) This course starts with the general concepts on hormones and their receptors. It will then go on to introduce the molecular aspects of receptors and generate hormone signals and responses. Prereq: BIO 315 or equivalent, BCH 401G or equivalent, CHE 550 or 552, or equivalent, or permission of instructor.

CHE 559 MOLECULAR BIOPHYSICS. (3) Overview of intermolecular forces responsible for formulation thermodynamics, structure of molecular assemblies, as well as intermolecular equilibria, allostery and propagation of signals. Extension of these principles to explain macromolecular machines, complex molecular behavior and, ultimately, processes of life. Prereq: CHE 440G or equivalent or permission of instructor.

CHE 565 ENVIRONMENTAL CHEMISTRY. (3) An introduction to the impacts of chemical agents, effects and fate of pollutants and hazardous chemical species in the atmosphere, hydrosphere, lithosphere and biosphere. Prereq: Two semesters of general college chemistry are required. Courses in analytical and physical chemistry are recommended, but are not required.

CHE 572 COMMUNICATION IN CHEMISTRY. (1) Required of all students for research and current chemical literature in seminar format; literature searching methods; resume construction; preparation of effective presentations, abstracts, and viewing of films. May be repeated for a total of two credits.

CHE 580 TOPICS IN CHEMISTRY. (1-3) A detailed investigation of a topic of current significance in chemis-try, with a maximum of six credits or equivalent. Lecture and/or laboratory: variable. Prereq: CHE 232 and 440G or 444G, or consent of instructor.

CHE 610 CHEMISTRY OF THE TRANSITION METALS. (3) A detailed treatment of the chemistry of the transition elements, lanthanides and actinides, including the structure of coordination complexes, bonding, reaction mechanisms and preparations. Prereq: CHE 510.

CHE 612 INORGANIC CHEMISTRY II. (3) A detailed treatment of the inorganic chemistry of the nonmetals. Topics include theories of bonding, spectroscopic characteristics, reaction mechanisms, preparations, physical methods of characterization and structural determination, and applications. Prereq: CHE 510.

CHE 614 ORGANOMETAL TRANSITION METAL CHEMISTRY. (3) A detailed treatment of the organometallic chemistry of the transition metals, including lanthanides and actinides. Topics include synthesis, structure, bonding theories, reactions, characterization by physical methods, and selected application to catalysis and catalysis. Prereq: CHE 232, CHE 410G or 510, and CHE 440G or 444G, or equivalent courses; or permission of instructor.

CHE 616 NUCLEAR CHEMISTRY. (3) An advanced study of nuclear chemistry and topics related to nuclear and radiochemistry. Prereq: CHE 440G and 520.

CHE 620 ELECTROCHEMICAL METHODS OF ANALYSIS. (3) An intensive study of the fundamental theories and principles of electrochemistry, and their practical applications for physical and quantitative measurements. Topics include polarographic, coulometric, amperometric, and coulometric methods. Prereq: CHE 232, CHE 410G and 510, or equivalent.

CHE 623 ELECTROCHEMICAL AND DATA ANALYSIS. (3) An advanced treatment of chemical equilibrium, sampling, and the evaluation of data obtained from related measurements. Topics include polarometric, coulometric, amperometric, and coulometric methods. Prereq: CHE 410G or 444G.

CHE 625 SPECTROCHEMICAL ANALYSIS. (3) An advanced treatment of the principles of spectroscopy, and analytical applications of modern atomic and molecular spectrometric methods. Prereq: CHE 440G.

CHE 626 ADVANCED ANALYTICAL CHEMISTRY. (3) An advanced study of the theory and practice of quantitative analysis.
CL A268 LITERARY MASTERPIECES (Subtitle required). (3) A survey of major Greek and Roman literary works. Attention will be focused on the various genres of Classical literature, and the course will compare innovative approaches of Greek and Latin literary pieces.

CLA 312 STUDIES IN GREEK ART (Subtitle required). (3) Study of the construction of gender, sexuality, and their relation to expression in the societies of ancient Greece and Rome. Gender roles, marriage, social problems concerning sex and virginity, and different ways of understanding sexuality and gender in historical contexts are examined through the study of ancient literature, art and the insights of contemporary scholarship.

CLA 390 ROMAN, JEW AND GREEK: BACKGROUNDS TO CHRISTIANITY. (3) A broad examination of the varieties of religious practice and experience in the ancient Mediterranean world, particularly in Greece, Rome, and Egypt. Emphasis will be placed on how dramatically ancient religious concepts and systems differ from those of the modern world.

CLA 400G CLASSICAL DRAMA: TRAGEDY AND COMEDY IN GREECE AND ROME. (3) A study of the development of tragedy and comedy in the ancient world. Attention will be focused on the cultural dimension of each form. Each offering of the course is devoted to advanced study of a particular topic in classical literature not covered in other CLA courses, or to a topic in the history of European and North American Latin-language literature, or the classical literary tradition. Examples of such topics are Greek and Latin historiography, classical rhetoric, comedy and tragedy, Latin poetry, classical literature and the modern cinema, Latin literature of the Middle Ages and Renaissance. Lectures and discussions, assigned and supplementary readings, paper writing. May be repeated to a maximum of nine credits with different topics.

CLA 509 ROMAN LAW. (3) A study of the development and practice of Roman law. May be repeated to a maximum of nine credits with different topics.

CLA 511, 512 STUDIES IN ROMAN LITERATURE (Subtitle required). (3) A survey of seminal texts in late medieval and post-medieval Latin literature and civilization. Emphasis is placed on learning to read the language. Some attention is given to Latin literature and Roman civilization.

CLA 512E ELEMENTARY LATIN. (3) A brief introduction to study of Latin. Emphasis is placed on learning to read the language. Some attention is given to Latin literature and Roman civilization.

CLA 522 ROMAN REPUBLICAN PROSE (Subtitle required). (3) A study of one or more works selected from prose writings from the beginnings of Roman literary history to 31 B.C. Authors include Cicero, Sallust, Livy, Vergil, and Catullus. Genres include history, philosophy, rhetoric and oratory, letters, and others. Textual analysis is emphasized, with lectures and class discussion on the literary milieu. Topics vary every time the course is offered. May be repeated to a maximum of nine credits under a different subtitle. Prereq: CLA 301 or equivalent.

CLA 523 ROMAN REPUBLICAN POETRY (Subtitle required). (3) A study of one or more works selected from poetry from the beginnings of Roman literary history to 31 B.C. Authors include Catullus, Propertius, Vergil and Juvenal. Genres include lyric poetry, satire, and others. Textual analysis is emphasized, with lectures and class discussion on the literary milieu. Topics vary every time the course is offered. May be repeated to a maximum of nine credits under a different subtitle. Prereq: CLA 301 or equivalent.

CLA 526 ROMAN IMPERIAL PROSE (Subtitle required). (3) A study of one or more works selected from prose writings from approximately 31 B.C. to the end of the Western Empire. Authors include Livy, Plutarch, Tacitus, Pliny, Plutarch, Suetonius, Sallust, Quintilian, Augustine, and others. Genres include epic, lyric, elegiac, satire, pastoral, and others. Textual analysis is emphasized, with lectures and class discussion on the literary milieu. Topics vary every time the course is offered. May be repeated to a maximum of nine credits under a different subtitle. Prereq: CLA 301 or equivalent.

CLA 527 ROMAN IMPERIAL POETRY (Subtitle required). (3) A study of one or more works selected from poetry from approximately 31 B.C. to the end of the Western Empire. Authors include Virgil, Ovid, Catullus, Juvenal, Vergil and others; genres include epic, lyric, elegiac, satire, pastoral, and others. Textual analysis is emphasized, with lectures and class discussion on the literary milieu. Topics vary every time the course is offered. May be repeated to a maximum of nine credits under a different subtitle. Prereq: CLA 301 or equivalent.

CLA 603 STUDIES IN LATIN LITERATURE OF THE REPUBLIC (Subtitle required). (3) Intensive study of author, a literary form, or a problem in the period of the Roman Republic. Considerable attention to reading sources; students will write papers and present oral reports in class. May be repeated to a maximum of nine credits with different topics.

CLA 604 STUDIES IN LATIN LITERATURE OF THE EMPIRE (Subtitle required). (3) Intensive study of author, a literary form, or a problem in the period of the Roman Empire. Considerable attention to secondary sources; students will write papers and present oral reports in class. May be repeated to a maximum of nine credits under a different subtitle. Prereq: CLA 509 or equivalent.

CLA 611 LATIN OF THE LATER ROMAN EMPIRE AND EARLY MIDDLE AGES. (3) A survey of seminal texts in late antique and medieval Latin with extensive reading and composition in Latin. Prereq: CLA 511 or equivalent.

CLA 612 LATIN FROM THE LATER MIDDLE AGES TO THE MODERN ERA. (3) A survey of seminal texts in late medieval and post-medieval Latin with extensive reading and composition in Latin. Prereq: CLA 511 or equivalent.

CLA 612 LATIN FROM THE LATER MIDDLE AGES TO THE MODERN ERA. (3) A survey of seminal texts in late medieval and post-medieval Latin with extensive reading and composition in Latin. Prereq: CLA 511 or equivalent.

CLA 613 STUDIES IN ROMAN ART (Subtitle required). (3) An intensive study of author, a literary form or a problem in the period from Homer through the Fifth Century. B.C. Considerable attention will be focused on reading sources; students will write papers and present oral reports in class. May be repeated to a maximum of nine hours.

CLA 620 STUDIES IN GREEK LITERATURE I (Subtitle required). (3) Intensive study of an author, a literary form or a problem in the period from the Fourth Century, B.C. through the Third Century, A.D. Considerable attention will be focused on secondary sources; students will write papers and present oral reports in class. May be repeated to a maximum of nine hours.

CLASCI IN GENERAL

CLA 511, 512 STUDIES IN ROMAN PHILOLOGY (Subtitle required). (3) Credit will be granted for work in various areas of Greek and Roman philology, e.g., in Latin literature, in Roman civilization, in Latin linguistics, etc. May be repeated to a maximum of nine hours. Prereq: Consent of instructor.

CLA 561 STUDIES IN GREEK PHILOLOGY. (3) Courses to meet the needs of students in various areas of Greek and Roman philology, e.g., in Greek literature, in Greek civilization, in Greek linguistics, etc. May be repeated to a maximum of nine hours. Prereq: Consent of instructor.

CLA 580 INDEPENDENT WORK IN CLASSICS. (3) Courses to meet the needs of the student, including those who wish to study Medieval and/or Renaissance Latin, will be arranged in various areas of study and will be repeated to a maximum of nine credits under a different subtitle. Prereq: Major standing of 3.0 in the department or consent of instructor.

CLA 695 INDEPENDENT WORK. (3) Independent investigation of a problem under supervision of a graduate faculty member; or directed readings, writing, and discussion in small groups on topics outside the usual seminar offerings, guided by a graduate faculty member; or directed readings, writing, and discussion in small groups on topics outside the usual seminar offerings, guided by a graduate faculty member. May be repeated to a maximum of nine credits. Prereq: Admission to graduate program, permission of instructor and of departmental Director of Graduate Studies.

CLA 748 MASTER’S THESIS RESEARCH. (0) Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq. All course work toward the degree must be completed.

CLA 768 RESIDENCE CREDIT FOR MASTER’S DEGREE. (1-6) May be repeated to a maximum of 12 hours.

CLA 790 RESEARCH IN THE TEACHING OF CLASSICS. (3) Problems in the teaching of Latin and/or Greek in secondary and/or higher education. Objectives, methods, preparation of materials, development of curricula, or the history of the field. Prereq. CLA 530 or the equivalent.

CLD Community and Leadership Development

CLD 102 THE DYNAMICS OF RURAL SOCIAL LIFE. (3) Introduces major concepts of sociology by exploring social, political and cultural issues confronting rural populations, including the history of American agricultural development. Course may involve significant fieldwork in rural communities. May be repeated to a maximum of six credits with different topics. Prereq: ENG 104 and sophomore status. Prereq: JOU/CLD 204 or equivalent. (Same as JOU 204.)

CLD 204 WRITING FOR THE MASS MEDIA. (3) An introduction to the concepts and techniques of media writing. This course offers hands-on instruction in information gathering, organization, and writing for print, broadcast and on-line media. Lecture, one hour; laboratory, four hours per week. Prereq: JOU 101 or equivalent. (Same as JOU 204.)

CLD 250 READING CRITICALLY AND WRITING WELL: COMMUNITY COMMUNICATIONS AND LEADERSHIP DEVELOPMENT. (3) This course will provide students with a foundation in critical thinking through emphasis on reading, writing and critical discussions addressing basic agricultural topics, controversial agricultural topics and specific topics in community communications and leadership development. Prereq: ENG 104 and sophomore standing. Primary registration access limited to majors and remaining seats open during secondary registration.

CLD 260 COMMUNITY SURVEY TECHNIQUES. (3) A course designed to develop skills in information gathering, news judgment, organization and writing. Students will learn to cover breaches in legislation and write for press, radio, and television. Emphasis will be placed on hands-on instruction in information gathering, news judgment, and writing for print, broadcast and on-line media. Lecture, one hour; laboratory, four hours per week. Prereq: JOU 101 or equivalent. (Same as JOU 204.)

CLD 300 COMMUNITY AND LEADERSHIP STUDIES. (3) From an overview of theories of leadership, leadership styles, and leader follower relationships, the course moves to a consideration of other factors influencing urban community leadership and management (e.g., conflict resolution, ethical decision-making, group processes). Readings, case studies, analyses, interviews with community and business leaders, and student research inventories help students develop both conceptual and reality-based understandings of contemporary leadership.
CLD 323 SURVEY OF AGRICULTURE AND COMMUNICATION MEDIA.
An exploration of the social, political, and economic factors that influence how agricultural producers and consumers receive information through the use of mass media. The course will analyze how the general mass media cover agricultural and consumer topics.

CLD 340 COMMUNITY INTERACTION.
Examines communication styles and patterns observed on an individual and group level, and identifies how these styles and patterns may vary across different cultural, social, or economic contexts.

CLD 650 APPLIED COMMUNITY COMMUNICATIONS.
Designs and conducts applied research on topics such as the use of mass media in community development, leadership development, and leadership communication within both geographic-bound communities and communities of taste. (3)

CLM 269 RESEARCH METHODS.
Research methods and skills for communicators, educators, and leadership development programs. Topics include design and analysis, data gathering techniques, and issues such as the politics of information. (Same as AED/CFS 682.) (3)

CLD 682 RESEARCH METHODS.
Research methods and skills for communicators, educators, and leadership development programs. Topics include design and analysis, data gathering techniques, and issues such as the politics of information. (Same as AED/CFS 682.) (3)

CLM 320 SURVEY OF AGRICULTURE.
Designed to familiarize students with advanced writing and editing skills often used in community and leadership development. May be repeated to a maximum of six credits. Offered on a pass/fail basis only. Prereq: Consent of instructor.

CLM 321 CLINICAL LEADERSHIP.
A seminar in clinical leadership and management. Topics to be covered include leadership theory and practice, tax laws, contracts, labor law, regulation and institutional liability. Prereq. Professional program status (which includes an earned Associate Degree in a health care discipline and one year of post-degree work in a health care setting) or consent of instructor. (Same as HSM 354.)

CLM 404 ETHICS IN HEALTH PRACTICE.
A seminar in clinical leadership and management knowledge, skills, and practices that promote clinical quality, efficiency, and productivity. Methods to measure, monitor, and evaluate quality and productivity will be discussed. Other topics to be discussed include writing a business plan, financial and budgetary considerations, reimbursement and regulatory policy, joint-task, role and quality, and reimbursement and regulatory policy, joint-task, role and quality, and stakeholder equity, government regulations, and accreditation will also be covered. Prereq. Admission to the CLM Program or consent of instructor.

CLM 441 LEADERSHIP AND HUMAN RESOURCES MANAGEMENT.
A course on leadership and human resources. Relevant topics include professional roles and responsibilities, with particular emphasis on organizational design, theory, and behavior. Human resource management, team leadership, and strategies for promoting employee motivation, loyalty, and productivity will be discussed. Other topics to be discussed include writing a business plan, financial and budgetary considerations, reimbursement and regulatory policy, joint-task, role and quality, and reimbursement and regulatory policy, joint-task, role and quality, and stakeholder equity, government regulations, and accreditation will also be covered. Prereq. Admission to the CLM Program or consent of instructor.

CLM 452 COMMUNITY AND INSTITUTIONAL PLANNING FOR HEALTH SERVICES DELIVERY.
Theoretical foundations for health planning. History of health planning and health service delivery. Specific topics include community and leadership development such as dispute resolution, volunteer management, and leadership development and leadership communication within both geographic-bound communities and communities of taste.

CLM 475 PRACTICUM IN COMMUNITY AND LEADERSHIP DEVELOPMENT.
This seminar course will focus on community and leadership development that builds upon assets and encourages local involvement. Supervised individual graduate research projects on selected issues in community and leadership development. May be repeated to a maximum of six credits. Research Learning contract must be filed with the Director of Graduate Studies.

CLM 654 HEALTH LAW.
Introduction to concepts of administrative and tort law applicable to health care settings. Topics to be considered include governance, patient rights, informed consent, medical/moral problems, malpractice, tax laws, contracts, labor law, regulation and institutional liability.

CLM 680 COMMUNITY DEVELOPMENT THEORY AND PRACTICE.
This course examines the theoretical and practical implications of community development and leadership communication within both geographic-bound communities and communities of taste.

CLM 700 SPECIAL TOPICS IN COMMUNITY AND LEADERSHIP DEVELOPMENT.
Supervised independent study on selected issues in community and leadership development. May be repeated to a maximum of six credits. Learning contract must be filed with the Director of Graduate Studies.

CLM 790 RESEARCH IN COMMUNITY AND LEADERSHIP DEVELOPMENT.
Supervised individual research projects on selected issues in community and leadership development. May be repeated to a maximum of six credits. Learning contract must be filed with the Director of Graduate Studies.

CLM 840 ETHICS IN HEALTH PRACTICE.
A seminar in clinical leadership and management knowledge, skills, and practices that promote clinical quality, efficiency, and productivity. Methods to measure, monitor, and evaluate quality and productivity will be discussed. Other topics to be discussed include writing a business plan, financial and budgetary considerations, reimbursement and regulatory policy, joint-task, role and quality, and reimbursement and regulatory policy, joint-task, role and quality, and stakeholder equity, government regulations, and accreditation will also be covered. Prereq. Admission to the CLM Program or consent of instructor.

CLM 850 ORGANIZATION OF THE LONG-TERM CARE SECTOR.
A course examines the structure and function of the long-term care sector with emphasis on nursing homes and the role of non-nominated executive directors. The course focuses on organizational structures and responsibilities of the executive, legislative, and judicial branches of government will be examined. The power and influence that politics, money, the media, and special interest groups have had, and continue to have, upon the development of national and state health policies will be examined and analyzed. Prereq. Student in CLM program or upper-level undergraduate or professional status.

CLM 860 SEMINAR IN ALLIED HEALTH PROFESSIONS.
Study and analysis of current and topical issues and problems facing the allied health professions. The course focuses on organizational structures and responsibilities of the executive, legislative, and judicial branches of government will be examined. The power and influence that politics, money, the media, and special interest groups have had, and continue to have, upon the development of national and state health policies will be examined and analyzed. Prereq. Student in CLM program or upper-level undergraduate or professional status.

CLM 880 SEMINAR IN ALLIED HEALTH PROFESSIONS.
Presentation of information about the various careers in clinical laboratory sciences as a career. (1)

CLM 885 CLINICAL LABORATORY SCIENCES AS A CAREER.
Presentation of information about the various careers in clinical laboratory sciences as a career. (1)
# Course Descriptions

## CLS 500/INTEGRATIVE CARE PRACTICE EXPERIENCE (1-3)
Integrative care involves using the best possible treatments from both complementary/alternative and allopathic medicine, based on the patient's condition. The selection of health care providers should be based on good science and this course will introduce students to complementary and alternative health care practitioners who have demonstrated competence and beliefs of these practices. The primary goals of this course are to foster and improve the scientific evidence in support of these practices. The course instructor will discuss and describe the evidence, to the extent that it is available, most cost-effective approach while incorporating a holistic understanding of the individual. May be repeated to a maximum of 3 credits. Prerequisite: Clinical Laboratory Sciences Professional Program or consent of instructor. (Same as CD/CNU/PT/RAS 610.)

## CLS 510 Seminar in Advanced Hematology (2)
Study of the biochemical aspects of blood cell physiology and kinetics as applied to clinical hematology laboratory and its introduction to Computerized Laboratories. This course is intended for practicing clinical laboratorians or medical technologists who are pursuing a graduate degree. Prerequisites: BCH 403G or equivalent and consent of instructor.

## CLS 520 Reproductive Laboratory Science (3)
This is a course designed to educate students in basic theories, procedure and quality assurance concepts of assisted reproduction. It will consist of two lectures per week and a limited number of three-hour laboratories. Computer-assisted instruction and video-tapes will also be used. Prerequisites: Admission to the professional CLS program or consent of instructor.

## CLS 610 Ethics in Clinical Sciences Research (1)
Students will examine ethical issues in biomedical research using a case-study approach. Representative issues addressed may include data falsification, patents, animal rights, informed consent, plagiarism, and conflict of interest. Prerequisites: Graduate student status. (Same as CD/CNU/PT/RAS 610.)

## CLS 632 Basic Clinical Chemistry (1)
The study of the theory and practice of clinical chemistry laboratory technology as applied to the analysis of both patient and specimen. The course is designed to develop the skills of a clinical laboratory assistant. Prerequisite: Admission into a Clinical Laboratory Sciences Program and CLS 835 or equivalent.

## CLS 633 Basic Immunology (1)
An overview of immunology with a molecular basis for the immune response. Fundamental aspects in humoral and cellular immunity will be discussed. Prerequisite: Consent of instructor.

## CLS 635 Laboratory Organization and Management (1-3)
An introduction to clinical laboratory organization. Content will include regulatory, management, personnel issues; leadership; quality assurance and improvement strategies; principles of education related to laboratory medicine; quality assurance; and topics relevant to clinical laboratory organization. Prerequisite: Admission into the Clinical Laboratory Sciences Professional Program.

## CLS 638 Basic Immunohematology (1)
Introduction to the principles and practice of blood banking including blood group systems, routine serologic testing, blood collection and processing of blood products. Prerequisites: Admission into the Clinical Laboratory Sciences Program and CLS 835 or equivalent.

## CLS 643 Advanced Clinical Hematology and Body Fluid Analysis (3)
The theory and practice of clinical hematology laboratory testing as it relates to hematological disorders and diseases of body fluids. Analytical techniques for the diagnosis of disorder include non-malignant leukocyte, erythrocyte, and body fluid disorders, including the hematopoietic system. Emphasis will be placed on fundamental principles and techniques in the laboratory practice. Special emphasis is placed on pathophysiology, the clinical correlation of laboratory test results with hematological and focal body dysfunction, and the interpretation and resolution of discrepant results. Prerequisites: CLS 833 or consent of the instructor.

## CLS 644 Advanced Clinical Chemistry (3)
A detailed study of the theory and practice of clinical chemistry testing, including toxicology, therapeutic drug monitoring, endocrine function, and quality assurance issues. Prerequisite: Admission into the Clinical Laboratory Sciences Professional Program, immunology (may be taken concurrently) and CLS 832 or equivalent.

## CLS 688 Advanced Immunohematology (1)
This course emphasizes clinical interpretation and problem solving. Antibody identification, selection of blood components, transfusion complications, hemolytic disease of the newborn, autoimmune hemolytic anemia and quality assurance are included. Prerequisite: Admission to the Clinical Laboratory Sciences Program and CLS 838 or equivalent.

## CLS 815 Basic Clinical Microbiology (1)
The study of basic microbiology, including bacteria, protozoa, fungi, parasitic worms, and viruses. Prerequisites: Consent of instructor.

## CLS 833 Basic Hematology (1)
The theory and practice of blood collection related to routine and special specimen collection for clinical laboratory testing. Particular emphasis is placed on testing that is not associated with venipuncture and skin puncture. Students perform venipunctures on artificial arms, actual patients and fellow students. The course includes instruction on collecting venous blood specimens for laboratory testing. Students will receive instructions on proper procedures for phlebotomy and patient care. Students will practice on mannequin arms and each other prior to collecting blood from adult ambulatory and bed patients; pediatric patients; and nursery patients. Offered on a Pass/Fail basis only. Prerequisite: Admission into the Clinical Laboratory Sciences Program and CLS 848 (may be taken concurrently).

## CLS 836 Advanced Clinical Hematology (3)
The study of medically important bacteria, with an emphasis on anaerobes and mycobacteria, and clinically significant fungi, parasites and viral agents. Prerequisites: Consent of instructor.

## CLS 842 Practicum in Clinical Microbiology (1-5)
A supervised practicum in which the student integrates theory and practice of clinical microbiology in a health care setting. Offered on a Pass/Fail basis only. Laboratory, 35-40 hours per week. The number of credits will depend on the student’s prior experience. Prerequisite: Admission into the Clinical Laboratory Sciences Program and CLS 848 (may be taken concurrently).

## CLS 844 Advanced Clinical Chemistry (1)
The study of the principles and practice of blood chemistry and fluid statics. Essential techniques for conservation of mass, momentum and energy for systems and control volumes. Dimensional analysis and similarity. Principles of fluid and fluid flow through pipes and around objects. Application and design of fluid handling systems. Prerequisite: Engineering standing, CME 200, 321 or EGR 199, and MA 211.

## CLS 856 Advanced Clinical Microbiology (3)
The study of medically important bacteria, with an emphasis on anaerobes and mycobacteria, and clinically significant fungi, parasites and viral agents. Prerequisites: Consent of instructor.

## CLS 860 Blood Banking (1)
Introduction to the principles and practice of blood banking including transfusion therapy. Prerequisites: Consent of instructor.

## CME 300/Chemical Engineering (JUNIOR AND SENIOR) (0)
A course in material and energy balances, thermodynamics, heat and mass transfer, chemical physics and molecular materials. Prerequisites: CHE 211, 212; CHE 230, 236; and consent of instructor. (Same as MSE 300.)

## CME 415 Separation Processes (3)
Separations based on both equilibrium stage concepts and mass transfer control are analyzed. Engineering aspects of chemical process operations, including distillation, gas absorption, extraction, adsorption, and membrane-based processes. Design problems are concerned to require computer-aided modeling and analysis. Prerequisite: CME 320, engineering standing.

## CME 420 Process Modeling (3)
A laboratory course emphasizing experimental work in fluid flow, separations, heat transfer, and mass transfer. A majority of this course will focus on lab report writing, statistics, experimental design and data analysis in the laboratory. Prerequisite: CME 346G. Concurrent: CME 425, CME 420, and engineering standing.

## CME 433 Chemical Engineering Laboratory I (2)
A laboratory course emphasizing experimental work in fluid flow, separations, heat transfer, and mass transfer. A majority of this course will focus on lab report writing, statistics, experimental design and data analysis in the laboratory. Prerequisite: CME 346G. Concurrent: CME 425, CME 420, and engineering standing.

## CME 435 Chemical Engineering Laboratory II (2)
A laboratory course emphasizing experimental work in fluid flow, separations, heat transfer, and mass transfer. A majority of this course will focus on lab report writing, statistics, experimental design and data analysis in the laboratory. Prerequisite: CME 346G. Concurrent: CME 425, CME 420, and engineering standing.

## CME 445 Chemical Engineering Process Design (3)
A lecture and problem-solving course devoted to the study of chemical engineering as it applies to the design of chemical process units and systems. Prerequisite: CME 415, CME 420, CME 425, MGE 330, CLS 221, and engineering standing.

## CME 446 Chemical Engineering Process Design (3)
A lecture and problem-solving course devoted to the study of chemical engineering as it applies to the design of chemical process units and systems. Prerequisite: CME 415, CME 420, CME 425, MGE 330, CLS 221, and engineering standing.

## CME 450 Chemical Engineering Process Design (3)
A lecture and problem-solving course devoted to the study of chemical engineering as it applies to the design of chemical process units and systems. Prerequisite: CME 415, CME 420, CME 425, MGE 330, CLS 221, and engineering standing.

## CME 455 Chemical Engineering Process Design (3)
A lecture and problem-solving course devoted to the study of chemical engineering as it applies to the design of chemical process units and systems. Prerequisite: CME 415, CME 420, CME 425, MGE 330, CLS 221, and engineering standing.

## CME 462 Control Process (3)
Basic theory of automatic control devices and their application in industrial chemical plants is emphasized. Identification of control objectives, appropriate measurements and manipulations, and possible loops between these, requirements integration of the control system with the unit operation process design, design of the control process units are analyzed using well-known analytical tools and design strategies. Prerequisite: CME 346G.

## CME 470 Professionalism, Ethics, and Safety (1)
Detailed lectures and supervised discussions on standards of ethics and safety as they relate to the engineering profession. Emphasis will be placed on safety plant design considerations. Identification of control objectives, appropriate measurements and manipulations, and possible loops between these, requirements integration of the control system with the unit operation process design, design of the control process units are analyzed using well-known analytical tools and design strategies. Prerequisite: CME 346G.

## CME 471 Seminar (1)
Students carry out literature searches on assigned topics in engineering, prepare for and deliver formal and informal talks at least every two weeks, and submit written summaries of these presentations. Lecture, two hours per week. Prerequisite: CME 199 and engineering standing.
CME 505 ANALYSIS OF CHEMICAL ENGINEERING DATA. (3)
The application of differential and integral equations to traditional and non-traditional chemical engineering problems. Prerequisite: CME 425, 429, and consent of instructor.

CME 515 AIR POLLUTION CONTROL. (3)

CME 550 CHEMICAL REACTOR DESIGN. (3)
A lecture and problem course dealing with integration of rate data and development of performance equations for single and multiple reactor systems. Each student will select an individual important chemical reaction system requiring computer solution. Prerequisite: CS 221, CME 420, CME 425, and engineering standing, or consent of instructor.

CME 554 CHEMICAL AND PHYSICAL PROCESSING OF POLYMER SYSTEMS. (3)
Theory and practice as related to the chemical and physical properties of polymer systems. Polymer rheology, heat transfer in polymer flows, polymer engineering properties. Polymer processing operations and equipment, selection. Prerequisite: CME 330, CME 425 or ME 325; or consent of instructor. (Same as ME/ MSE/ME 554.)

CME 556 INTRODUCTION TO COMPOSITE MATERIALS. (3)
Applications, materials selection and design of materials. Relation between processing, physical and material properties of composite and those of components. Processing methods for materials and for some structures. Lab. Focuses on preparation and testing of composite materials and their constituents. Prerequisites: CME 201, 205, CME 236, and Engineering Standing, or consent of instructor. (Same as MEME 556.)

CME 560 DESIGN OF RATE AND EQUILIBRIUM PROCESSES FOR WATER POLLUTION CONTROL. (3)
The design of chemical and physical processes for the removal and concentration of organic, inorganic, and particulate pollutants from aqueous solutions. Desorption, distillation, membrane processes, thermal processes, flow through beds of solids, etc. Prerequisite: CHE 440G, CME 425 and prerequisite or concurrent CME 550 or consent of instructor.

CME 599 TOPICS IN CHEMICAL ENGINEERING. (3)
A detailed investigation of a topic of current significance in chemical engineering such as contemporary energy topics, fuels development, membrane science, computer control of chemical processing. A particular effort is to hold a lecture and seminar course in which students present current research on selected topics. Prerequisites: CME 401, CME 236, and Engineering Standing, or consent of instructor. (Same as MEME 599.)

CME 620 EQUILIBRIUM THERMODYNAMICS. (3)
The criteria for physical and chemical equilibria, including: predic- tive equations, solution theory, chemical activity, coupled chemical equilibria, and electrochemical equilibria. Emphasis may be on vapor-liquid, solid-liquid, solid-gas, gas-liquid, and complex ion- equilibria. Examples include: solid solution and dilute suspensions. Prerequisites: CHE 440G and CME 320 or consent of instructor.

CME 622 PHYSICS OF POLYMERS. (3)
An in-depth exploration of the mathematical description of polymer behavior. Comparison of diverse approaches to modeling the same behavior. Study of isolated polymer chain and how it relates to properties of melt, and solution states. Prerequisites: Graduate standing and undergraduate degree in the physical sciences or engineering that includes advanced calculus, differential equations, and matrix algebra. (Same as MSE 622.)

CME 630 TRANSPORT. (3)
A unified study of physical rate processes in liquids and vapors, including: mass, energy, and momentum transport, transport in chemically reacting systems, similarities, turbulence modeling, buoyancy-induced transport and multicomponent diffusion. Prerequisites: ME 330, CME 430, 525 concurrent or consent of instructor.

CME 650 ADVANCED CHEMICAL REACTOR DESIGN. (3)
Rate expressions for heterogeneous reactions; kinetic- and mass transport-related issues: reaction engineering; optimal design: design equations for multiphase fixed and moving bed reactors. Prerequisite: CME 550, CME 630, CME 505, or instructor consent.

CME 664 MARKETING AND SENSORY LABORATORIES. (3)
A multidisciplinary laboratory course with laboratory experiences in areas related to marketing and sensory architectures, typically including chemistry, chemical and materials engineering, and electrical engineering. Lecture: 1 hour; laboratory: 2 hours. Prerequisite: One year of college-level chemistry and physics. GS 660 or consent of instructor. (Same as CHE/EE/ME 664.)

CME 660 BIOCHEMICAL ENGINEERING. (3)
Principles and practice of biochemical reaction engineering, including aerobic and anaerobic respirations and fermentations, and involving pure and mixed cultures. Energy considerations, heat and mass transfer in chemically reacting medium. Applications of lipase and protein waste treatment. Prerequisite: CME 550, CME 630, CME 440G or consent of instructor. (Same as BAE 688.)

CME 741H MAJOR/ MINOR THESIS RESEARCH. (3)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prerequisite: All course work toward the degree must be completed.

CME 749 DISSERTATION RESEARCH. (0)
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prerequisite: Registration for full two-semester sessions of 769 residence credit following the successful completion of the qualifying examination. Prerequisite: registration for two-semester sessions of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

CME 767 DISSERTATION RESIDENCE CREDIT. (2)
Residency credit for dissertation research after the qualifying examination. Students may be required to be enrolled for the entire two-semester seminars. Prerequisite: The qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

CME 768 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (1-6)
May be repeated to a maximum of 12 hours.

CME 769 RESIDENCE CREDIT FOR THE DOCTOR’S DEGREE. (1-6)
May be repeated to a maximum of 12 hours.

CNU Clinical Nutrition
CNU 500 INTEGRATIVE CARE FOR HEALTH SCIENCES. (1-3)
Integrative care is the best possible treatments from complementary/alternative and allopathic medicine, based on the patient’s individual needs and condition. The selection of health care providers should be based on good science and this course will introduce students to complementary and alternative health care providers and their theories and beliefs of these practices as well as the scientific evidence in support of these practices. The course integrates successes from both worlds and describes the safest, least invasive, most cost-effective method, incorporating a holistic understanding of the individual. May be repeated to a maximum of 3 credits (1 credit didactic and up to 2 credits experiential/ research). (Same as AT SFH 500, CLS 500, CS 500, PA 500, PT 686.)

CNU 501 NUTRACEUTICALS AND FUNCTIONAL FOODS IN HEALTH AND DISEASE. (2)
The course will cover the classification, brief history and the impact of nutraceuticals and functional foods on health and disease. An example of nutraceuticals included in this course include: isoflavones, isoflavones, flavonoids, carotenoids, lycopene, garlic, omega 3 fatty acids, squaliphógênos, vitamin e and antinutrients, S-adenosyl-L-methionine, plant sterols and phytosterols, and lipic acid. Prerequisite: Undergraduate organic chemistry and/or biochemistry.

CNU 502 NUTRITION IN OBESITY: C2C: CELL TO COMMUNITY (Subittle required) (2)
This course will provide an overview of the obesity epidemic from an applied clinical as well as public health perspective. Topics to be covered include etiology, pathophysiology, evaluation, treatment, management, and prevention of obesity throughout the lifecycle. Prerequisites: CNU 202 or NFS/NS 608; NFS/NS 202; or consent of instructor. (Same as NFS/NS 608.)

CNU 601 NUTRITION AND CHRONIC DISEASES. (4)
Selected topics in nutritional sciences related to health and chronic diseases, e.g. gastrointestinal disease, cancer, AIDS, diabetes, cardio-vascular disease, obesity, including drug-nutrient interactions. Prerequisite: NFS/NS 602, NSF/CNU 701, NSF/CNU 610; or consent of instructor. (Same as NSF/NS 701.)

CNU 701 NUTRITIONAL IMMUNOLOGY. (3)
Theory and practice of nutrition and immunology. May be repeated to a maximum of 12 hours. Prerequisite: CNU 410 or consent of instructor. (Same as NSF/NS 704.)

CNU 702 CHEMICAL/CLINICAL NUTRITION PRINCIPLES COURSE. (3)
The course is designed to develop the student’s independent thinking and critical analysis related to various nutritional sciences issues. Prerequisite: Bachelor degree in nutrition, dietetics, and or nutrition, consent of instructor. (Same as NSF/NS 701.)

CNU 703 CURRENT TOPICS IN NUTRITIONAL SCIENCES. (1-3)
This course is designed to develop the student’s independent thinking and critical analysis related to various nutritional sciences issues. Prerequisite: Bachelor degree in nutrition, dietetics, and or nutrition, consent of instructor. (Same as NSF/NS 702.)

CNU 704 SPECIAL TOPICS IN NUTRITIONAL SCIENCES. (1-3)
Independent advanced work on a special problem in nutritional sciences. Prerequisite: Consent of graduate advisor. (Same as NSF/NS 706.)

CNU 790 RESEARCH IN NUTRITIONAL SCIENCES. (0-6)
Research work involving original investigation. May be repeated to a maximum of 18 credits. Prerequisite: Consent of graduate advisor. (Same as NSF/NS 780.)

COM Communication
COM 101 INTRODUCTION TO COMMUNICATION. (3)
This course will provide a basis for understanding the role of communication as a critical element in human interaction and in society. Designed to enhance effective communication and informed use of the mass media. COM 181 BASIC PUBLIC SPEAKING. (1)
This course will provide the student with experience in the fundamental skills of effective speaking. COM 184 INTERCOLLEGIATE DEBATING. (1)
A public speaking course in intercollegiate debate. Students are directed to develop independent critical thinking and manuscript, scientific misconduct, and informed consent. Prerequisite: Graduate student status. (Same as CWL/SP/IRAS 610. (Same as NSF/NS 609.)

COM 201 PRINCIPLES OF NUTRITION. (3)
Introduction to nutrition and the food system. May be repeated to a maximum of 12 hours. Prerequisite: NSF/CNU 401 or consent of instructor. (Same as NSF/NS 608.)

COM 301 NUTRITION AND CULTURAL DIVERSITY. (3)
Exploring the impact of culture on nutrition. May be repeated to a maximum of 12 hours. Prerequisite: NSF/CNU 401 or equivalent; or BCH 401G and consent of instructor. (Same as NSF/NS 608.)

COM 302 NUTRITION AND CULTURAL DIVERSITY. (3)
Nutritional anthropology: Diet and culture, nutrient needs and dietary patterns throughout the lifecycle, the metabolic changes in nutrient effects on genes that modulate obesity. Prerequisite: BCH 501 and 502 or equivalent; or BCH 401G and consent of instructor. (Same as NSF/NS 608.)

COM 608 NUTRITIONAL RESEARCH. (3)
Research work involving original investigation. May be repeated to a maximum of 18 credits. Prerequisite: Consent of graduate advisor. (Same as NSF/NS 780.)
COM 252 INTRODUCTION TO ORGANIZATIONAL COMMUNICATION. (3) Designed to introduce students to basic concepts in the study of organizational communication. The course considers approaches to the study of communication within organizational settings, including classical approach, human relations, human resource approaches, systems approaches, cultural approaches, and cognitive approaches. Emphasizes the study of communication as an organizational phenomenon, including the role of communication in organizations and career development. Prereq: COM 351 and COM 365; for other majors, COM 249 and departmental approval. [238x569]COM 351 INTRODUCTION TO COMMUNICATION THEORy. (3) Considers various theoretical perspectives which lead to a more thorough understanding of communication processes. Begins with discussion of the development of theory and inquiry, includes perspectives from linguistic, cognitive, behavioral, affective, symbolic, interactionist, dramatic, social and cultural, intuitive and critical theories. [238x316]COM 355 INTRODUCTION TO COMMUNICATION RESEARCH METHODS. (3) An introduction to the methods of scientific research into communication processes and their social consequences. Provides tools necessary for designing research projects and for interpreting and critically evaluating research results. Prereq: One course in statistics. [238x398]COM 395 INDEPENDENT WORK. (1-3) Research and study of special topics in communication. The student produces an independent study report and may enter into a contractual agreement with a faculty supervisor for guidance and evaluation. Ordinarily, projects will require the production of written materials as a basis for the evaluation. The student will work to a maximum of six credits. Prereq: For Communication majors COM 281, COM 351 and COM 365; for other majors, COM 281 and departmental approval. [238x398]COM 399 INTERNSHIP IN COMMUNICATION. (1-6) Field-based experience in communication through work in industry, government, education, etc. Pass/fail only. May be repeated to a maximum of six credits. A maximum of three credit hours may be counted toward the communication major. Prereq: COM 351 and COM 365, consent of Department Internship Director prior to registration, and completion of departmental learning contract prior to internship. [238x443]COM 449 SOCIAL PROCESSES AND EFFECTS OF MASS COMMUNICATION. (3) Examines theory and research on the relationship between the organization of a mass society and its communication media. Special emphasis is given to the way in which cultural processes and social change have an impact on the mass media and on the way in which the mass media influence cultural processes and social change. Prereq: For Communication majors COM 249, COM 351 and COM 365; for other majors, COM 249 and departmental approval. [238x706]CPH 201 INTRODUCTION TO PUBLIC HEALTH. (3) This course provides the student with basic knowledge about the discipline of public health, the history and political orientation to public health, students will begin to acquire functional knowledge about the role of public health in the community. Key content areas (such as HIV prevention, maternal and child health, reducing obesity rates, and reducing tobacco addiction) will be focal points for the investigation of these strategies. [238x506]CPH 202 SOCIAL AND BEHAVIORAL HEALTH CARE DELIVERY SYSTEM. (3) An introduction to the health care delivery system in the United States, with an emphasis on the interaction between organizations and professional groups within the system in various settings, health care terminology, and major problems and issues in the delivery of health care programs. [238x60]CPH 353 DATABASES AND SAS PROGRAMMING. (3) Students will learn how to construct and maintain databases with applications to public health. They will also learn how to program in SAS, the leading statistical analysis system. SAS skills include report writing, MACRO writing, and Programming using SAS Interactive. Lecture, two hours; laboratory, two hours per week. Prereq: CPH 291 or equivalent. [238x614]CPH 611 ENVIRONMENTAL HEALTH. (3) An introduction to the theory and practice of assessing, correcting, controlling, and preventing environmental hazards that may adversely affect human health. Prereq: Undergraduate chemistry and biology, or permission of instructor. (Same as ES 620.) [238x436]CPH 614 MANAGERIAL EPIDEMIOLOGY. (3) This course is designed to study and evaluate the broad array of epidemiologic studies on causes and correlates of adult health outcomes. Integrating the fields of occupational and environmental epidemiology. Prereq: Enrollment in a Public Health degree program and CPH 605/PM 620 or consent of instructor. [238x443]CPH 616 ADOLESCENT AND YOUNG ADULT EPIDEMIOLOGY. (3) A study of diseases related to sexual behaviors and substance use and their associated adverse health outcomes. Integrating the fields of occupational and environmental epidemiology. Prereq: Enrollment in a Public Health degree program and CPH 605/PM 620 or consent of instructor.
Graduate Certificate in Clinical Research Skills. (3)

This course will help the learner understand differences in minority status and health behavior and address controversial issues of bioethics for public health. Prereq: Enrollment in a Public Health degree program or consent of instructor.

CPH 695 PUBLIC HEALTH PRACTICE THROUGH SERVICE LEARNING. (3)

This course will help the learner understand the opportunity to gain first-hand public health experience by participating in projects in a community setting, completing a project, and participating in a series of seminars and practice. Prereq: Enrollment in a Public Health degree program and completion of the core curriculum, or consent of instructor.

CPH 711 CHRONIC DISEASE EPIDEMIOLOGY. (3)

A survey course on the leading chronic diseases in the U.S., including cardiovascular disease, cancer and diabetes with focus on surveillance and risk factor prevention. Prereq: CPH 665/PM 620 Introduction to Epidemiology or consent of instructor. (Same as PM 790.)

CPH 712 ADVANCED EPIDEMIOLOGY. (3)

Introduction to specialized epidemiologic content areas as well as methods designed to meet the research and practice of health professionals. Prereq: Enrollment in a Public Health degree program and CPH 605/PM 621 or consent of instructor.

CPH 719 INDEPENDENT STUDIES IN INEPIDEMIOLOGY. (Subtitle required) (1-3)

This course will engage in readings, projects, lectures and/or discussions to address current topics of special interest or concerns. May be repeated to a maximum of 6 semester hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

CPH 728 SPECIFIC TOPICS IN OCCUPATIONAL ENVIRONMENTAL HEALTH. (Subtitle required) (1-3)

This course will engage students in reading, projects, lectures and/or discussions to address current topics of special interest or concerns. May be repeated to a maximum of 6 semester hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

CPH 729 INDEPENDENT STUDIES IN OCCUPATIONAL ENVIRONMENTAL HEALTH. (Subtitle required) (1-3)

This course will engage students in reading, projects, lectures and/or discussions to address current topics of special interest or concerns. May be repeated to a maximum of 6 semester hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

CPH 730 SPECIFIC TOPICS IN BIOSTATISTICS. (Subtitle required) (1-3)

This course will engage students in reading, projects, lectures and/or discussions to address current topics of special interest or concerns. May be repeated to a maximum of 6 semester hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

CPH 750 LEGAL BASIS OF PUBLIC HEALTH. (3)

Introductionary course for non-lawyers in selected aspects of the law relating to public health. Prereq: Enrollment in a Public Health degree program or consent of instructor.

CPH 756 SPECIAL TOPICS IN PUBLIC HEALTH. (Subtitle required) (1-3)

This course will engage students in reading, projects, lectures and/or discussions to address current topics of special interest or concerns. May be repeated to a maximum of 6 semester hours. Prereq: Enrollment in a Public Health degree program or consent of instructor.

CPH 770 INDEPENDENT STUDIES IN PUBLIC HEALTH. (1-3)

This course will allow Dr.P.H. students to remain in a full-time student for a leadership role in public health. Prereq: Admission to the Dr.P.H. program and consent of instructor. (Subtitle required) (1-3)

CPH 910, or approval of instructor.

CPH 911 PROFESSIONAL SEMINAR IN EPIDEMIOLOGY. (3)

Professional Seminar in Epidemiology is an advanced course in one of the five content areas of public health designed as the link between academic work in epidemiology and application in Public Health practice. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, or approval of instructor.

CPH 920 ADVANCED ENVIRONMENTAL HEALTH. (3)

This professional seminar in Environmental Health is designed to provide comprehensive coverage of the principles upon which the Environmental Health field relies. Prereq: Admission into the Dr.P.H. curriculum.

CPH 921 PROFESSIONAL SEMINAR IN ENVIRONMENTAL HEALTH. (3)

Designed as the link between academic work in environmental health and application health practice, and to provide the student for a leadership role in public health. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, or approval of instructor.

CPH 930 ADVANCED BIOSTATISTICAL METHODS IN PUBLIC HEALTH. (3)

The study of advanced topics in biostatistics for the public health professional emphasizing the interpretation and application of biostatistical methods designed to meet the research and practice needs of health professionals. Lecture, two hours; laboratory, two hours per week. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, or approval of instructor.

CPH 940 HEALTH RELATED BEHAVIORS: MODELS AND APPLICATIONS. (3)

This course evaluates the use of models of health on related behavior and their applications for intervention in public health problems. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, or approval of instructor.

CPH 941 PROFESSIONAL SEMINAR IN HEALTH BEHAVIOR ENHANCEMENT. (3)

Designed as the opportunity to link academic work in health enhancement with application in public health practice and to provide the student for a leadership role in public health. Prereq: Admission to the Dr.P.H. program, CPH 940, or approval of instructor.

CPH 949 DOCTORAL CAPSTONE RESEARCH. (0)

This course will allow Dr.P.H. students to remain in a full-time enrollment status at the University of Kentucky while working on their doctoral capstone. Enrollment is restricted and by special permission only; students may only register for this course after all for-credit course work has been completed.

CPH 950 WELL MANAGED PUBLIC HEALTH CARE ORGANIZATION. (3)

The Well Managed Public Health Care Organization is an advanced course addressing effective senior management of public and private organizations focusing upon public health. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, or approval of instructor. (Subtitle required) (1-3)

CPH 951 PROFESSIONAL SEMINAR IN PUBLIC HEALTH MANAGEMENT AND PRACTICE. (3)

Designed to link academic work in public health management with application in public health practice, and to provide the student for a leadership role in public health. Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, or approval of instructor.

CPH 952 SEMINAR IN ADVANCED LEADERSHIP. (3)

This course provides an opportunity to link academic work in public health leadership application in public health practice and to prepare the learner for a leadership role in public health. This will be accomplished through reading assignments, studies, exercises, and individual research relevant to the disciplines of the profession of public health and leadership. Prereq: Enrollment as a Dr.P.H. student or permission of the instructor.
# Course Descriptions

## CS Computer Science

### CS 100 THE COMPUTER SCIENCE PROFESSION (1)
An introductory seminar which covers the fundamental activities, processes, and principles of the profession of computer science. An overview of the discipline of computer science, examples of careers, the history of computing and experience with elementary computing tools such as word processing, spreadsheets, and the internet.

### CS 101 INTRODUCTION TO COMPUTING I (4)
An introduction to computing and its impact on society from a user’s perspective. The course includes software tools and a simple programming language. No prior programming experience is needed.

### CS 115 INTRODUCTION TO COMPUTER PROGRAMMING (4)
A course that provides the opportunity to link academic work in public health decision-making with its application to public health practice and research. A survey of the practice and the role of computer programming based on ethical and moral principles. This will be accomplished through readings, case studies, exercises, and individual and group projects. Emphasis will be placed on the solution of characteristic problems arising in engineering.

### CS 215 INTRODUCTION TO DATABASE SYSTEMS (3)
A course that covers introductory object-oriented problem solving, design, and programming. Fundamental elements of data structures and programming design will be covered. An equally balanced effort will be devoted to the three main threads in the computer science curriculum. The seminar will consider in depth the decisions made by Nazi political and military leaders, citizens, religious leaders, concentration camp commanders, guards, and others involved in the planning and business leaders. Films will be used extensively in the seminar. Prereg: Enrollment as a Dr.P.H. student or permission of the instructor.

### CS 211 FIRST COURSE IN COMPUTER SCIENCE FOR ENGINEERS (2)
Characteristics of a procedure-oriented language: description of a computer as to internal structure and the representation of information, software engineering, and the role of the programmer. Emphasis will be placed on the solution of characteristic problems arising in engineering.

### CS 274 PREREQUISITE TO THE DOCTORAL SEMINAR IN PUBLIC HEALTH FINANCE AND ECONOMICS (3)
This course provides the opportunity to link academic work in public health practice and research. A survey of the practice and the role of computer programming based on ethical and moral principles. This will be accomplished through readings, case studies, exercises, and individual and group projects. Emphasis will be placed on the solution of characteristic problems arising in engineering.

### CS 286 INTRODUCTION TO PUBLIC HEALTH PROJECT RESEARCH METHODS (3)
Prereq: Admission to the Dr.P.H. program, completion of MPH/MSPH core or equivalent, second year status, or approval of instructor.

### CS 299 SPECIAL TOPICS IN PUBLIC HEALTH (1-12)
Public health project or dissertation research for residency credit. May be repeated twice. Prereg: Consent of instructor.

### CS 335 GRAPHICS AND MULTIMEDIA (3)
This course, a core course for the computer science major, covers the principles of windowing systems, graphical interface design and implementation, and processing graphical data. There is an emphasis on the development of software. Graphical user interfaces are designed using a high-level procedural programming language and concepts such as object-oriented design. Prereg: CS 216 and engineering standing.

### CS 330 APPLICABLE ALGEBRA (3)
Topics include: Euclid’s algorithm, unique factorization mod arithmetic. Fermat’s, Euler’s and Wilson’s theorems. RSA public key encryption. Pollard rho factoring, prime tests, error correcting codes, Hamming codes, polynomial rings and quotient rings, BCH codes and Reed-Solomon codes. Prereg: MA 322 or MA 213. (Same as MA 321.)

### CS 337 LOGIC AN THEORY OF COMPUTING (3)

### CS 339 GRAPHICS AND MULTIMEDIA (3)
A course that covers the fundamentals of windowing systems, graphical interface design and implementation, and processing graphical data. There is an emphasis on advanced programming techniques. Graphical user interfaces are designed using a high-level procedural programming language and concepts such as object-oriented design. Prereg: CS 216 and engineering standing.

### CS 355 INDEPENDENT WORK IN COMPUTER SCIENCE (3)
A course for computer science majors only. A problem, approved by the chairperson of the department, provides an opportunity for independent research and study. May be repeated to a maximum of six credits. Prereg: MA 325 or consent of instructor.

### CS 383 INTRODUCTION TO EMBEDDED SYSTEMS (3)
A course in the hardware and software of microprocessors. Assemblies, microprocessors, microcontrollers, microcomputers, and microprocessors. The course covers topics in assembly language programming, interfacing peripheral devices, and input/output programming. Real-time computer systems, computer laboratories, included. Prereg: EE 280 or CS 245. (Same as EE 383.)

### CS 390G ADVANCED COMPUTER ARCHITECTURE (3)
This course focuses on high-level concepts of computer architecture and low-level system software. Topics include RISC architectures, vector and multiprocessor architectures, multiprocessor memory architecture, advanced processor design, and operating system. Prereg: CS 315 and graduate or engineering standing.

### CS 405G INTRODUCTION TO DATABASE SYSTEMS (3)
Studies of emerging research and methods in computer science. A review and extension of selected topics in the current literature. When the course is offered, the topics will be announced. Lecture/discussion, two-four hours; laboratory, zero-four hours. Prereg: CS 315 and graduate or engineering standing.

### CS 410 INTERMEDIATE TOPICS IN DATABASE SYSTEMS (3)
A course for computer science majors only. A problem, approved by the chairperson of the department, provides an opportunity for independent research and study. May be repeated to a maximum of six credits. Prereg: MA 325 or consent of instructor.

### CS 415G GRAPH THEORY (3)
Theorem of linear undirected graphs, including definitions and basic concepts, trees, connectivity, traversability, factorization, planarity and matroid theory. Prereg: CS 315 or consent of instructor.

### CS 416G PRINCIPLES OF OPERATIONS RESEARCH (3)
The course is designed to present modern operations research techniques, including discussion of modeling, linear programming, dynamic programming, integer programming, scheduling and inventory problems and network algorithms. Prereg: MA 213 or equivalent. Prereg: MA 416G.

### CS 422 NUMERICAL SOLUTIONS OF EQUATIONS (3)
Linear equations: Gaussian elimination, special linear systems, orthogonalization, eigenproblem, iterative methods. Nonlinear equations: solutions of equations in one variable, solutions of systems of nonlinear equations. Optimization. Prereg: CSMA 321 and MA 322; or consent of instructor. (Same as MA 422.)

### CS 441G COMPILERS FOR ALGORITHMIC LANGUAGES (3)
The course covers the design and implementation of compilers for translating high-level computer languages into assembly code. Topics include finite state machines and lexical analysis, context-free grammars for language specification, lexical analysis, parsing, and an introduction to the design of a simple compiler. Prereg: CS 215, MA 318, and graduate or engineering standing.

### CS 450G FUNDAMENTALS OF PROBLEM SOLVING USING ARTIFICIAL INTELLIGENCE (3)
An intensive study of fundamental programming concepts exhibited in current high-level languages. Concepts include recursion, iteration, concurrent and multiprocessing, list manipulation, pattern matching, data structures, and storage management. Typical languages studied are SNOBOL, LISP, PASCAL, and APL. Prereg: Consent of instructor. Prereg: CS 215, science and electrical engineering majors. Others by permission.

### CS 463G INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3)
The course covers basic techniques of artificial intelligence. The topics in this course are: search and game-playing, logic systems and automated reasoning, knowledge representation, intelligent agents, planning, reasoning under uncertainty, and declarative programming languages. The course covers both theory and practice, including programming assignments that utilize concepts covered in lectures. Prereg: CS 315, CS 375, and engineering standing.

### CS 471G NETWORKING AND DISTRIBUTED OPERATING SYSTEMS (3)
Broad overview of concepts in networking and distributed operating systems with examples. Topics will include protocol stacks, link, network, transport, and application layers, network management, the client-server model, remote procedure calls, and case studies of distributed OS and file systems. Prereg: CS 315 and graduate or engineering standing.

### CS 480G ADVANCED COMPUTER ARCHITECTURE (3)
This course focuses on high-level concepts of computer architecture and low-level system software. Topics include RISC architectures, vector and multiprocessor architectures, multiprocessor memory architecture, advanced processor design, and operating system. Prereg: CS 315 and graduate or engineering standing.

### CS 485G TOPICS IN COMPUTER SCIENCE (3)
A course that covers the fundamentals of windowing systems, graphical interface design and implementation, and processing graphical data. There is an emphasis on advanced programming techniques. Graphical user interfaces are designed using a high-level procedural programming language and concepts such as object-oriented design. Prereg: CS 216 and engineering standing.

### CS 499 SENIOR DESIGN PROJECT (3)
Projects to design and implement complex systems of current interest to computer scientists. Students will work in small groups. Prereg: CS 315 and engineering standing.

### CS 505 INTERMEDIATE TOPICS IN DATABASE SYSTEMS (3)
A course that introduces a variety of modern techniques in database and distributed database systems. The major topics include, but are not limited to: object-oriented database systems, distributed, heterogeneous and web-based databases; knowledge-based systems; physical database design; and security. The course covers a variety of methods and tools for solving problems where the traditional relational database techniques are not viable or not sufficient. Prereg: CS 405 or consent of instructor.

### CS 515G ALGORITHMS (3)
The design and analysis of efficient algorithms on data structures for problems in sorting, searching, graph theory, combinatorial optimization, computational geometry, and computational algebra. Algorithm design techniques: divide-and-conquer, dynamic programming, greedy method, and randomization, and approximation algorithms. Prereg: CS 315 and graduate or engineering standing.

### CS 521 COMPUTATIONAL SCIENCES (3)
Study of computer science techniques and tools that support computation and engineering, including representation, performance evaluation, parallel computing, and distributed computing. Prereg: CS 315, CS/EE 380, and engineering standing.

### CS 522 THEORY AND NUMERICAL LINEAR ALGEBRA (3)
Course Descriptions

CS 535 INTERMEDIATE COMPUTER GRAPHICS. (3) Three-dimensional computer graphics. Understanding lighting, shading, hidden line/surface removal, and more advanced topics such as solid modeling, image storage and representation, advanced raster graphics, algorithms, advanced modeling techniques, and animation will be covered. Prereq: CS 335, CS 315, CS 321, and engineering standing.

CS 536 SOFTWARE DESIGN. (3) This course covers the fundamental concepts involved in understanding and engineering a closed-loop, sensing, reasoning, and actuating system. The topics include perception, sensor fusion, and related work to modern artificial counterparts. The course consists of three main topic areas: vision, brain, and robotics. It will introduce students to the design and implementation of models of belief representation and modification, architectures for percep tion, perception algorithms, machine learning for vision, neural networks, path planning, intelligent localization based on visual cues, and to forward and inverse kinematics, intelligence grasping, and the integration of perception and action. Prereq: CS 406 or consent of instructor.

CS 537 NUMERICAL ANALYSIS. (3) Floating-point numbers and arithmetic, error analysis, methods for the solution of systems of linear algebraic equations. Polynomial and piecewise polynomial approximation, orthogonal polynomials. Numerical integration. Newton's method, nonlinear equations, optimization. Optimization of initial value problems for ordinary differential equations. The emphasis throughout is on the understanding and use of software packages for the solution of commonly occurring problems in science and engineering. Prereq: CS/MA 321 or equivalent or graduate standing or consent of instructor. Knowledge of a procedural computer language is required. (Same as EGRMA 537.)

CS 541 COMPILER DESIGN. (3) Intermediate aspects of a compiler process with an emphasis on front-end issues. Topics include lexical analysis, software design overview, software design process, a survey of software design methods, object-oriented design methods, concurrent design methods, design review, as well as discussing current topics such as aspect-oriented programming, refactoring, and design patterns. Testing and validation techniques are emphasized throughout the course. Program designs are developed and validated using modern software engineering principles and standards. (Same as CS 441 or consent of instructor.)

CS 555 DECLARATIVE PROGRAMMING. (3) Topics in declarative programming languages. The course will cover primarily theory, including the Chomsky Hierarchy of language types. Topics may include: requirements elicitation, specification requirements, and specification verification. Analysis and validation techniques are emphasized throughout the course. Prereq: Nine hours of graduate study.

CS 568 SOFTWARE ENGINEERING. (3) This course provides the software environment for other fields of science and engineering with experience of parallel and distributed computing. This course provides an overview of parallel and distributed computing systems and paradigms. The course addresses architectures, languages, environments, communications, and parallel programming. Emphasis on understanding parallel and distributed computing and portable parallel programming with MPI. Prereq: Two 500 level CS courses, or consent of instructor.


CS 622 PARALLEL AND DISTRIBUTED COMPUTING. (3) This course provides a comprehensive introduction to the principles and practice of parallel and distributed computing. The course is designed for serious introductory parallel and distributed computing and portable parallel programming with MPI. Prereq: Two 500 level CS courses, or consent of the instructor.

CS 630 FREE-FORM SOLID MODELING. (3) This course covers the computer graphics aspects of a specific computer-based description that is suitable for manufacturing. It covers various solid models, volume representations, boundary representations, and Boolean combinations of shapes, and procedural generation such as sweeps. It discusses effective data structures, algorithms, and unambiguous part description such as a factory to a fabrication house, as well as problems with maintaining unambiguous topology in the presence of fine-precision geometry. Prereq: CS 535 or consent of instructor.

CS 631 COMPUTER-AIDED GEOMETRIC DESIGN. (3) Overview of current concepts and issues in CAGD with emphasis on free-form surface design, mathematics of free-form curve and surface representations, including Coons patches, Gregory patches, Bezier method, B-splines, NURBS, triangular interpolants, and their geometric consequences; creating objects with smooth surfaces, covering assembling spline patches, geometric and parametric continuity, texture mapping, elevation of surfaces, surface evolution, and global optimization. Prereq: CS 535 and CS 321, or consent of instructor.

CS 633 3D COMPUTER ANIMATION. (3) This course covers the underlying principles and techniques of 3D computer animation. The topics covered include (1) modeling: the process of building a scene, (2) rendering: the process of defining how the final picture in the model will look, (3) animation techniques: the process of creating in-between frames and keyframes, (4) compositing: the process of assembling various pieces of an image to get special two-dimensional effects, and (5) recording: the principles and techniques involved in capturing and digitizing motion. Prereq: CS 335 or CS 535, or consent of instructor.

CS 635 IMAGE PROCESSING. (3) This course is concerned with applications of image processing and additional basic operations involved. Topics covered include image perception, transforms, compression enhancement, restoration, segmentation, and motion estimation. Prereq: Standing graduate student and consent of instructor. (Same as EE 653.)

CS 636 COMPUTER VISION. (3) Covers digital image processing as well as advanced topics in computer vision. Initial topics include image formation, digital filtering, sensor modeling and feature detection techniques. Topics will include methods that have been useful for attacking general computer vision problems including three-dimensional reconstruction, scene understanding, object recognition, and motion analysis. Prereq: CS 536 or consent of instructor; knowledge of computer vision from the current literature. A substantial group project will provide an opportunity for experience with the concepts, algorithms and technology. Prereq: CS 335 and CS 635.

CS 642 DISCRETE EVENT SYSTEMS. (3) The objective of the course is to prepare students for research in the field of supervisory control of discrete event systems. Logial models, supervising control. Stability and optimal control of finite election, process groups and group communication. Case covered. Prereq: Graduate standing or consent of instructor. (Same as EE 642.)

CS 663 ARTIFICIAL INTELLIGENCE. (3) Overview of modern artificial intelligence. Covers topics such as search strategies, knowledge, logic programming, expert systems, methods to represent uncertain information and to reason about it, reasoning about action and planning, expert systems, machine learning, natural language processing, neural networks, and robotic control. Prereq: CS 535 or consent of instructor.

CS 670 DISTRIBUTED OPERATING SYSTEM THEORY. (3) This course covers advanced distributed operating system algo- rithms and theory. Topics such as distributed mutual exclusion, distributed event ordering, distributed deadlock detection/avoidance, consistent global view creation, collection-based predicate detection, failure recovery, failure-tolerant consensus, and distributed computation. Prereq: CS 535 or consent of instructor.

CS 671 ADVANCED COMPUTER NETWORKS. (3) This course is intended to provide students with a solid understanding of the technology that underlies the current Internet, and to introduce them to emerging concepts. Topics are covered in some depth, including both abstract and concrete aspects. The course begins with a study of implementations of the current Internet, and the current Internet Protocol Version 4 (IPv4) of the Internet Protocol. The course focuses on a concrete backbone for the rest of the course. The emphasis is on learning by doing, with programming and other hands-on assignments associated with most topics. Prereq: CS 571 or consent of instructor.

CS 673 ERROR CORRECTING CODES. (3) The problem of correct transmission of data in a noisy environment. The design and analysis of codes that efficiently (in terms of data rate and encryption and decryption speed) correct errors. Linear and nonlinear block codes, general encoding and decoding tech- niques, fundamental bounds, dual codes, cyclic codes. Specific codes will be studied, including Hamming, BCH, Reed-Muller, Reed-Solomon, and convolutional codes. Prereq: CS 515 or consent of instructor.

CS 674 ALGORITHMIC TOOLS. (3) These tools are intractable. Exact techniques such as integer search are used in digital image programming and dynamic programming. Approxima- tion techniques include recent advances in approximation algorithms, complex search problems, and polynomial time methods. Prereq: CS 535 or consent of instructor.

CS 675 CRYPTOGRAPHY. (3) This course covers cryptography and its applications. Topics include one-way functions and hash functions, symmetric and public-key cryptosystems, security principles, and digital signatures. Prereq: CS 571 or consent of instructor.

CS 676 CYBERSECURITY TOOLS AND TECHNIQUES. (3) Course covers the use of tools and techniques for analyzing and mitigating cyber threats. Topics include network security, information assurance, and incident response. Prereq: CS 571 or consent of instructor.

CS 677 NETWORK SECURITY TECHNOLOGY. (3) This course covers modern network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 678 COMPUTER SECURITY. (3) This course covers the fundamentals of computer security, including access control, authentication, confidentiality, privacy, and integrity. Prereq: CS 571 or consent of instructor.

CS 679 INFORMATION SECURITY. (3) This course covers the fundamentals of information security, including access control, authentication, confidentiality, privacy, and integrity. Prereq: CS 571 or consent of instructor.

CS 680 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 681 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 682 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 683 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 684 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 685 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 686 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 687 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 688 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 689 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.

CS 690 COMPUTER NETWORK SECURITY. (3) This course covers modern computer network security technology and its applications. Topics include network protocols, security protocols, and privacy issues. Prereq: CS 571 or consent of instructor.
CSC 670 HISTOCOMPATIBILITY AND IMMUNOGENETICS.

CSC 671 MOLECULAR IMMUNOPATHOGENESIS.

CSC 672 TRANSPLANTATION SCIENCE.

CSC 673 FLOW CYTOMETRY.

CSC 674 HEMOPOIESIS.

CSC 675 MYELOPROLIFERATIVE DISORDERS.

CSC 676 ADVANCED HEMOSTASIS.

CSC 677 COMPUTATIONAL GEOMETRY.

CSC 681 HUMAN PATHOPHYSIOLOGY.

CSC 682 HEALTHCARE POLICY AND ETHICS.

CSC 683 CLINICAL PRACTICUM IN REPRODUCTIVE LABORATORY.

CSC 685 SPECIAL TOPICS IN COMPUTER SCIENCE (Subtitle required).

CSC 686 ADVANCED HEMOSTASIS.

CSC 687 SPECIAL TOPICS IN SYSTEMS.

CSC 689 SPECIAL TOPICS IN NUMERICAL ANALYSIS AND SCIENTIFIC COMPUTING (Subtitle required).

CSC 690 OPERATING SYSTEMS THEORY. (3)

CSC 691 RESEARCH METHODS.

CSC 692 ADVANCED REPRODUCTIVE IMMUNOLOGY.

CSC 693 FLOW CYTOMETRY.

CSC 694 RESEARCH METHODS FOR THE CLINICAL SCIENCES.

CSC 695 EPIDEMIOLOGY AND BIOSTATISTICS.

CSC 697 DISABILITY RESIDENCY CREDIT.

CSC 698 MASTER’S THESIS RESEARCH.

CSC 699 DISSEMINATION RESEARCH.

CSC 700 LABORATORY TECHNIQUES.

CSC 702 MANAGEMENT OF REPRODUCTIVE CLINICS.

CSC 703 RESIDENCY IN ANDROLOGY.

CSC 704 ADVANCED REPRODUCTIVE IMMUNOLOGY.

CSC 705 ADVANCED HEMOSTASIS.

CSC 706 ADVANCED LABORATORY STATISTICS AND ADMINISTRATIVE ANALYSIS.

CSC 707 CLINICAL SCIENCE.

CSC 708 RESEARCH METHODS.

CSC 709 CLINICAL PRACTICUM IN REPRODUCTIVE LABORATORY.

CSC 710 HISTOCOMPATIBILITY.

CSC 711 MOLECULAR IMMUNOPATHOGENESIS.

CSC 712 TRANSPLANTATION SCIENCE.

CSC 713 FLOW CYTOMETRY.

CSC 714 HEMOPOIESIS.

CSC 715 MYELOPROLIFERATIVE DISORDERS.

CSC 716 ADVANCED REPRODUCTIVE IMMUNOLOGY.

CSC 717 FLOW CYTOMETRY.

CSC 718 RESEARCH METHODS.
Overview of classic texts on war and statecraft. Prereq: Consent of DIP 710 GREAT BOOKS OF WORLD POLITICS. (3)

DIP 700 DYNAMICS OF DIPLOMACY. (3) This course explores advanced topics in international relations and diplomacy, including the theories and principles of diplomacy, the analysis of diplomatic behavior, and the effects of globalization on diplomatic practices. Prereq: Permission of instructor.

DIP 710 GREAT BOOKS OF WORLD POLITICS. (3) Overview of classic texts on war and statecraft. Prereq: Consent of instructor. (Same as PS 734.)

DIP 720 ECONOMIC STATECRAFT. (3) This course covers advanced topics in economic statecraft, including the role of economic strategies in international affairs, and the development of policies to achieve economic and political objectives.

DIP 725 GEOGRAPHIC MODELING. (3) Course uses large user-friendly computer modeling software to analyze spatial patterns and economic geography. Prereq: STA 570 or permission of instructor.

DIP 730 CROSS-CULTURAL NEGOTIATION AND BARGAINING. (3) A multidisciplinary graduate course using contemporary studies of negotiation and communication to individual levels. A minimum of two semesters of CSC 769 residence credit following the successful completion of the qualification examination.

DIP 740 MASTER’S THREE SEMESTERS. (1-4) Half-time to full-time work may be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

DIP 750 DEFENSE STATECRAFT. (3) Students will gain familiarity with the key military policy issues that confront governments, and will learn to evaluate the claims of journalists and various organizations that conflict informed American opinion on a day-to-day basis. Prereq: Graduate status.

DIP 760 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (1-4) May be repeated to a maximum of 12 hours.

DIP 777 RESEARCH DESIGN IN INTERNATIONAL RELATIONS. (3) This seminar focuses on research strategies that can be utilized in dealing with problems in international relations. May be repeated once with consent of instructor. Prereq: PS 674 or consent of instructor.

DIP 780 INTERNATIONAL SCIENCE AND TECHNOLOGY POLICY. (3) A multidisciplinary course that investigates policy questions related to the role of science and technology in international relations. Prereq: Consent of instructor.

DIP 790 SPECIAL PROBLEMS IN DIPLOMACY AND INTERNATIONAL RELATIONS. (3) Specialized independently designed study course taken under the supervision of various instructors. May be repeated to a maximum of six credits. Prereq: Permission of instructor.

DIP 795 SPECIAL TOPICS IN DIPLOMACY. (3) Course covers advanced topics in international relations. Prereq: Consent of instructor.

DIP 799 HEMATOPOIETIC STEM CELL AND BONE MARROW TRANSPLANTATION. NONTRADITIONAL ADMISSIONS. (3) Innovative efforts to treat and cure various disorders by transplantation of hematopoietic stem cells or bone marrow will be explored. Examination of the design of research projects and recent and current clinical investigations, ex vivo expansion of stem cells and other contemporary topics will be emphasized. Prereq: CSC 673.

CSC 778 CELLULAR CYTOMETRY. (3) In-depth examination of cytometric analysis of DNA in neoplasms and tumors, and of nucleic acid and protein characterization in normal and abnormal cells. Prereq: Consent of instructor. (Same as PS 674.)

CSC 787 TEACHING APPRENTICESHIP. (1-4) Candidates from Cleveland University’s Clinical Sciences College will complete a teaching assignment in collaboration with and under the supervision of a graduate faculty member in preparation for teaching. Prereq: Admission to the Clinical Sciences doctoral program.

CSC 789 RESEARCH APPRENTICESHIP. (1-4) The goal of this course is to provide the opportunity for students to become familiar with and carry out research methods that may currently not be used because of limited resources and time. In addition, students will have the opportunity to practice research skills under the supervision of a research mentor. Prereq: Admission to the Clinical Sciences doctoral program.

CSC 790 CLINICAL SCIENCES DISSERATION. RESEARCH. (0-12) Research design, protocol development, and written dissertation report. Prereq: Fulfillment of the dissertation defense and approval by the thesis committee. Graded S or U. May be repeated to a maximum of six semesters. Prereq: Fulfillment of the qualifying exam. May be repeated to a maximum of six credits. Prereq: Approval of instructor and chairperson.

CSC 791 PRODUCTION AND INVENTORY CONTROL. (3) This course covers advanced topics in inventory and production control including forecasting, planning horizon issues, dynamic lot sizing, reorder point determination, optimal periodic and continuous review systems, and multiget and multistage systems. Prereq: CSC 710, CSC 650, ECO 391.

CSC 793 INFORMATION TECHNOLOGY FOR ORGANIZATIONAL DECISION MAKING. (3) Course covers advanced topics in productivity and quality control including acceptance sampling, manufacturing control, process control, and design of experiments. Prereq: CSC 710, CSC 730, CSC 750, CSC 760, and CSC 770.

CSC 794 ADVANCED BUSINESS DATA PROCESSING AND INFORMATION. (3) An examination of the use of computers as an aid to business and economic decision making, information, and related problems in business and economics. Prereq: CSC 320 or equivalent, CSC 350, CSC 410, and CSC 510.

CSC 799 SPECIAL TOPICS IN CLINICAL SCIENCES. DISCUSSION SYSTEMS IN DECISION MAKING. (3) This course covers advanced topics in decision theory, decision science, operations research, and related problems in business and economics. Prereq: CSC 320 or equivalent, CSC 350, CSC 410, and CSC 510.

CSC 800 MANAGEMENT INFORMATION SYSTEMS IN DECISION MAKING. (3) In-depth consideration of the use of information in decision making in business and economics. Prereq: CSC 320 or equivalent, CSC 350, CSC 410, and CSC 510.

CSC 801 BUSINESS AND ECONOMIC DECISION SUPPORT SYSTEMS. (3) Introduction to expert systems and artificial intelligence in the business setting. Discussions include past and current applications of expert systems in business and considerations of future application possibilities. Prereq: CSC 620.

CSC 802 BUSINESS DATA ACQUISITION SYSTEMS. (3) An introduction to the comparative analysis and business use of various data models. Topics include the theory and design of data storage and retrieval procedures in the context of business information needs. Prereq: CSC 620, CSC 101 or consent of instructor.

CSC 803 BUSINESS DECISION SUPPORT SYSTEMS. (3) Discussion of business decision support system concepts and the applications of these concepts in business organizations. The theoretical development of the decision support system concept is analyzed through review of important literature in this area. Emphasis is placed on the impact of technological advances which form the basis of decision support system software. Current decision support systems are studied and future likely applications considered. Prereq: CSC 620.

CSC 804 MANAGEMENT INFORMATION RESOURCES. (3) The course is designed to prepare students to understand and analyze major information related to the management information resources. Students evaluate the current state of information resources management within organizations, and plan and make decisions about acquisition of such resources. Prereq: CSC 620 or consent of instructor. (Same as MGT 624.)
DIS 651 QUANTITATIVE ANALYSIS, MANAGEMENT SCIENCE.
A study of key problem formulation and solution procedures in business decision making. The topics studied include statistical techniques, management science, decision trees, queuing problems, and value of information. A major segment of the course is devoted to the study of linear programming problems and assignment problems and transportation problems. Prereq: MBA standing.

DIS 695 INDIVIDUAL WORK IN DISIS.
Students carry out individual work under the supervision of an instructor. May be repeated to a maximum of six credits. Prereq: Consent of the instructor.

DIS 700 TOPICS IN OPERATIONS MANAGEMENT.
To study the various topics of operations management and to survey the status of the art research in each topic area. Research methodology and research opportunities in each topic area will be identified. May be repeated to a maximum of six credits. Prereq: Nine credit hours of graduate study, consent of instructor, and contractual agreement.

DSP 772 SEMINAR IN DESIGN SYSTEMS.
A course in the fundamentals of the role of MIS in managerial decision making. Emphasis is placed on current research in MIS and interrelationships with management science and operations management. Prereq: DIS 751 or consent of instructor.

DSP 753 SEMINAR IN MANAGEMENT SCIENCE.
Each semester some topic in management science such as simulation, queuing theory, stochastic processes, numerical methods, and Bayesian Decision Theory will be studied intensively. Prereq: DIS 751, 752.

DMT 520 TEXTILES FOR INTERIORS.
Selection, color, expected performance and care of textiles used in residential and commercial interiors. Prereq: MAT 120.

DMT 600 RESEARCH METHODOLOGY IN HUMANITIES AND SOCIAL SCIENCES.
Students will study scientific techniques and accepted research methodologies in human environmental science research. Emphasis is placed on understanding the research process and developing the skills necessary to evaluate and implement research methods and design experiments for their area of study and/or self-study. (Same as HES 600.)

DMT 641 REGIONAL VARIATIONS IN COLONIAL AMERICAN DESIGN.
An analysis of regional variations in American furnishings, interior finishes, and architecture from colonization to 1783, covering major historical periods and significant historical events. The course will be given to historical, economic, social, political, and religious influences on design. Prereq: DMT 142 or consent of instructor.

DMT 655 ISSUES IN CREATION AND DESIGN.
This course will examine theory and research on creativity. The emphasis will be on social structure, social roles, norms and socialization processes related to creativity such as personality, processes, and press. Throughout the course, emphasis will be given to theoretical and methodological procedures necessary to advance understanding of creativity to help students form a knowledge base for developing an in-depth research topic. Prereq: Graduate standing.

DMT 659 INTERIOR DESIGN STUDIES.
Advanced studio problems in an aspect of the human environment. Emphasis is placed in design for the general public. Selected topics may include explorations in the history of design, visualization of design concepts, critical analysis, and design research. Prereq: DMT 558 or consent of instructor.

DMT 669 ADVANCED COLOR THEORY.
Advanced color theory will examine the physical, psychological, historical, and cultural aspects of color. Applications of color theory to textiles and apparel will be emphasized. Prereq: DMT 558 or consent of instructor.

DMT 700 RESEARCH PROBLEMS IN INTERIOR DESIGN.
This course evaluates in detail a specific problem in the field of interior design, merchandising, and textiles. May be repeated to a maximum of six credits. Prereq: Eighteen credit hours of graduate work.

DMT 748 MASTER'S THESIS RESEARCH.
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed with a GPA of 3.0 or better. May be repeated to a maximum of six credits.

DMT 766 RESIDENCE CREDIT FOR THE MASTERS DEGREE.
May be repeated to a maximum of 12 hours. Prereq: Consent of instructor.

DMT 772 SEMINAR IN INTERIOR DESIGN, MERCHANDISING AND TEXTILES.
Current investigation of interior design, merchandising and textiles. May be repeated to a maximum of six credits.

DMT 785 INDEPENDENT STUDY IN INTERIOR DESIGN, MERCHANDISING, AND TEXTILES.
Problems of interest to the student may be studied through library work and/or limited supervised practical work. Prereq: Nine credit hours of graduate study, consent of instructor, contractual agreement.

DST 781 SPECIAL TOPICS IN MANAGEMENT DECISION SYSTEMS.
This is a variable topic course enabling focused doctoral student experiences, analyses, discussions, readings, and field trips. Studio, seminars, and/or library study conforming to the student's special interest under the direction of an appropriate faculty member having proficiency in the area selected. May be repeated to a maximum of nine credits. Prereq: Consent of instructor.

DST 790 SPECIAL TOPICS IN MANAGEMENT DECISION SYSTEMS.
This course will analyze the current research topics of interest in the decision sciences. The course will study management science and operations research, multiple-criteria decision making; data envelopment analysis, combative decisions, and models for service organizations. May be repeated to a maximum of nine credits. Prereq: DTS 751 or consent of instructor.

EAP Education Abroad Program

EAP 400 EDUCATION ABROAD ONUK-Sponsored Education Abroad Program.
(1-18) A course designed for undergraduate, graduate and non-degree students who participate in a UK-Sponsored Education Abroad Program. Registration is contingent on acceptance by the University of Kentucky. This course may only be taken Pass-Fail. Students will be enrolled in the course upon payment of the non-refundable program fee but will not receive credit in ECO 261.)

EAP 433 EDUCATION ABROAD ONUK-Sponsored Education Abroad Program.
A course designed for undergraduate and graduate students who participate in a UK-Sponsored Education Abroad Program. Registration is contingent on acceptance by the University of Kentucky. This course will generate the appropriate exchange fee depending upon the type of exchange. The type of exchange will be indicated by the suffix. TPE=Tuition/Plus Other; TLO=Tuition/Lodging; TME=Tuition/Meal; TME=Tuition/Plus Other.

EAP 450G THE ECONOMICS OF POVERTY AND WELFARE PROGRAMS.
ECON 450G AND OTHER CONSIDERATIONS OF THE POOR IN THE U.S. theory of poverty, and major redistribution programs in the U.S. The course will study the economic impacts of such programs as Social Security, Medicare, Aid to Families with Dependent Children, Food Stamps, Medicaid, and child care subsidies. Prereq: ECO 401 or equivalent.

EAP 465G COMPARATIVE ECONOMIC SYSTEMS.
This course will include the theoretical examination of the major economic systems in existence today. The classical model of competitive market capitalism is reviewed first, followed by the Marxist-Ecological Model and the Keynesian Model, and the contemporary Keynesian and the neo-Keynesian models are analyzed. The course concludes with a review of the Lange model of capital flows, and the socialism. Prereq: ECO 441 or equivalent or consent of instructor.

EAP 467G AMERICAN ECONOMIC HISTORY.
This course will examine the American economy from its roots to the present. The course is designed to be of comprehensive nature. The course may be repeated for credit.

EAP 472G INTERNATIONAL MONETARY ECONOMICS.
This course will deal with the problems of the international monetary system and the economic problems of the world. The course may be repeated for credit. Prereq: ECO 441 or equivalent.

EAP 473G MERCANTILE LAW.
This course will cover the law of sale of goods and the law of bills of exchange. Prereq: ECO 441 or equivalent.

EAP 474G MACROECONOMIC COUNTRY STUDIES.
This course will be offered to students who participate in a UK-sponsored education abroad program. (UKURP).

EAP 475G MACROECONOMICS.
This course will cover the microeconomic foundations of macroeconomic models. Prereq: ECO 441 or equivalent.

EAP 476G INTERNATIONAL MONETARY ECONOMICS.
This course will deal with the problems of the international monetary system and the economic problems of the world. The course may be repeated for credit. Prereq: ECO 441 or equivalent.

EAP 477G INTERNATIONAL TRADE.
This course will include the theoretical examination of the international trade. The course may be repeated for credit. Prereq: ECO 441 or equivalent.
An analysis of trade patterns and the implication of government fiscal institutions. (3)

ECO 674 AGRICULTURE AND ECONOMIC DEVELOPMENT.
(3)
Analyzing the role of agriculture in economic development in relation to overall development strategy at various stages of growth. Theoretical and policy issues of particular relevance to agrarian societies and developing countries with economies of various resources, social, political, and economic systems. Prereq: ECO 473G or consent of instructor. (Same as AEC 626.)

ECO 692 ECONOMETRICS FOR POLICY ANALYSTS.
(3)
Maximum likelihood, ordinary least squares (OLS) regression, instrumental variables (IV) regression, heteroscedasticity-consistent regression, fixed and random effects models, probit, logit, and tobit models, log-linear models, latent models and estimation of simultaneous equations models. Prereq: Any undergraduate statistics course: MPA, MPP or PAU program status for priority registration; other students with permission of instructor. (Same as PA 692.)

ECO 700 TEACHING METHODS IN BUSINESS.
(1)
A three part course that examines what constitutes good teaching and explores effective techniques for college instructors. Seminars emphasize practical information for both the practical aspects and the details of teaching. Departmental discussions allow students to discuss issues that arise in their teaching practice. Reviews of the second and third parts provide professional feedback in order to enhance on-the-job learning. Seminar, two hours per week. Prereq: Approval of Director of Graduate Studies. (Same as BA 700.)

ECO 701 NEOCLASSICAL MICROECONOMIC THEORY.
(3)
The New Classical perspective of the microeconomic theory of price, equilibrium and imperfect competition. Prereq: ECO 601 and ECO 590, or consent of instructor.

ECO 702 ADVANCED MACROECONOMIC THEORY.
(3)
Analysis of general equilibrium macroeconomic models and factors responsible for deviations from general equilibrium. Emphasis on issues relevant for professional literature. Prereq: ECO 602 or consent of instructor.

ECO 703 INTRODUCTION TO ECONOMETRICS.
(3)
The first course in introduction to econometrics. A comprehensive survey of the literature in econometrics and tobit models, and identification and two-state least squares estimation of economic models. Prereq: ECO 703 or consent of instructor.

ECO 704 GENERAL EQUILIBRIUM ANALYSIS AND WELFARE ECONOMICS.
(3)
Existence theorems, the Arrow-Debreu model, and Pareto satisfactions of competitive equilibrium. Recent developments in general equilibrium and welfare theory. Prereq: ECO 701 or consent of instructor.

ECO 705 MACROECONOMIC METHODS.
(3)
Theoretical and empirical assessment of dynamic issues in macroeconomics. Topics include neoclassical and endogenous growth models and vector autoregressions. Prereq: ECO 702 or consent of instructor.

ECO 706 INTRODUCTION TO ECONOMETRICS II.
(3)
The second course provides a more comprehensive survey of identification, estimation and hypothesis testing in the context of simultaneous equations model. Prereq: ECO 703 or consent of instructor.

ECO 710 ECONOMICS OF ORGANIZATION.
(3)
The Economics of Organization allocates transaction costs and principal-agent problems, and the internal organization of the firm. Topics covered include the boundaries of the firm, corporate governance, and internal incentive systems. Prereq: ECO 610 or equivalent.

ECO 711 ECONOMICS OF FIRM STRATEGY.
(3)
The Firm Strategy course examines economic tools to the analysis of firm strategies and analyzes the costs and demand conditions, economies of scale and scope, product differentiation, entry and mobility barriers, price discrimination and commodity bundling, vertical control, and rivalry and strategy. Prereq: ECO 610 or equivalent.

ECO 721 ENVIRONMENTAL ECONOMICS. REGULATION.
(3)
This course takes a balanced practitioner approach to the problems of the environment and environmental regulation. Efficiency aspects will be developed in one section and there will be an extensive coverage of various available alternative policies. Prereq: PA 652 and MPA or economics program status or consent of instructor. (Same as PA 727.)

ECO 724 ENVIRONMENTAL ECONOMICS.
(3)
This seminar in environmental economics deals with market failure, benefit-cost analysis, valuation of environmental resources, and policy design and choice of taxes and selected topics in environmental economics. Central to the course is the valuation of changes in health risks, risk perception, and behavior related to health and the environment. Prereq: PA 652 or consent of instructor.

ECO 725 HEALTH ECONOMICS.
(3)
This course rigorously examines the organization, financing, and management of health services and health care delivery systems, and emphasizes economic analysis contemporary health policy concerns. By the end of the semester, students should have the institutional knowledge and skills needed to contribute to public policy debates about health and medical care. This course

ECO 724 ENVIRONMENTAL ECONOMICS.
(3)
This is the course for the Ph.D. program in Environmental and Health Economics in the Ph.D. program in Economics. Prereq: ECO 601 and 703 or consent of instructor.

ECO 732 LABOR ECONOMICS II.
(3)
Dynamic and cyclical labor demand are examined theoretically and empirically. Models of unemployment are considered, including sticky wages and sticky prices, and implications for policies. Prereq: ECO 610 or consent of instructor.

ECO 741 THEORY OF THE FIRM AND MARKET STRUCTURE.
(3)
A study of firms and markets covering such topics as organizational structure and objectives of firms; product selection, advertising and quality; price discrimination; vertical and horizontal integration; exit and exit cost; structure and market organization, market structure and performance; and public policy. Prereq: ECO 601 or consent of instructor.

ECO 742 INDUSTRIAL ORGANIZATION.
(3)
A comprehensive survey of the literature in industrial organizations analysis. Theories of oligopoly and monopolistic competition, information about strategic behavior, research and development, and innovation are included. Prereq: ECO 601 or consent of instructor.

ECO 749 DISSERTATION RESEARCH.
(0)
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters post-Ph.D. credit following the successful completion of the qualifying exams.

ECO 751 PUBLIC ECONOMICS.
(3)
An introduction to the fiscal and monetary activities influence allocation, relative prices and welfare and what is the role of the public sector in resource allocation. Relevant topics include: public goods, externalities, tax incidence, cost-benefit analysis, public pricing, fiscal federalism, state-municipal finance, public choice. Prereq: ECO 601 or consent of instructor.

ECO 752 THE ECONOMICS OF POLICY ANALYSIS.
(3)
This course examines economic approaches to policy analysis. Included is an analysis of the major concepts of economic analysis and their application to a number of policy problems. Prereq: PA 652 and PA 750 or equivalent and Ph.D. program status or consent of the instructor (Same as PA 752.)

ECO 753 URBAN AND REGIONAL ECONOMICS.
(3)
An intensive study of the theory, evidence and policy concerning urban areas and regions. Topics typically covered include: nature of regions and urban areas, size and distribution of cities, location decisions, housing, transportation, migration and regional growth. Prereq: ECO 601 or consent of instructor.

ECO 761 MONETARY ECONOMICS: THEORY.
(3)
Demand and supply of money and other assets. The financial sector in macro-static and dynamic models of the economy. Prereq: ECO 701 or consent of instructor.

ECO 762 MONETARY ECONOMICS: POLICY.
(3)
Theory of public policy making. Central bank policy instruments and their application to a number of policy problems. Prereq: PA 652 and PA 750 or equivalent and Ph.D. program status or consent of the instructor.

ECO 767 DISSERTATION RESIDENCY CREDIT.
(1-6)
Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

ECO 768 RESIDENCE CREDIT FOR MASTER'S DEGREE.
(0-12)
May be repeated indefinitely.

ECO 769 RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE.
(0-12)
May be repeated indefinitely.

ECO 770 INTERNATIONAL ECONOMIC HEALTH.
(3)
Trade theory and policy analysis. Theories of trade, the balance of payments, exchange rate determination, and international monetary systems. Prereq: ECO 602.

ECO 771 INTERNATIONAL ECONOMIC HEALTH.
(3)
Trade theory and policy analysis. Theories of trade, the balance of payments, exchange rate determination, and international monetary systems. Prereq: ECO 602.

ECO 773 OPEN ECONOMY MACROECONOMICS.
(3)
Development of rigorous models to enhance knowledge of open economies. Topics include: impact on an economy of changes in government spending, changes in exchange rates, and international financial markets. Prereq: ECO 702.

ECO 774 ENVIRONMENTAL ECONOMICS.
(3)
An analysis of the role of government policy on trade, in the light of both economic theory and empirical findings. Prereq: Successful completion of an upper division undergraduate economics course.

ECO 775 MICROECONOMIC THEORY.
(3)
A comprehensive course in microeconomic theory. Topics will include: microeconomic principles, consumer and producer theory, market structures, and welfare economics. Prereq: ECO 391, ECO 401, and ECO 402 or equivalent or consent of instructor.

ECO 776 MACROECONOMIC THEORY.
(3)
An introduction to macroeconomic theory and policy. Topics will include: the principles of Keynesian and monetarist economics, the structure and objectives of the U.S. Federal Reserve System, and government intervention in the economy. Topics covered include: market failure, public goods and externalities, welfare policy, voting and public choice, taxation, public debt and cost-benefit analysis. Prereq: ECO 701 or consent of instructor.

ECO 777 REGULATION AND POLICY.
(3)
The role and regulation of economic institutions and markets. Central bank, banking, telecommunications, insurance, and antitrust regulations. Prereq: ECO 701 or consent of instructor. (Same as PA 737.)
EDC 339 DESIGNING A READING AND LANGUAGE ARTS PROGRAM FOR THE ELEMENTARY SCHOOL. (3) A study of materials and procedures for developing reading and language arts skills with elementary students, with an emphasis on grades K-4. Course will emphasize how to diagnose individual student skills strengths and weaknesses and build a prescriptive program based upon the results. Prereq: EDC 329; admission to the TEP or permission of instructor. Coreq: EDC 322.

EDC 341 MIDDLE SCHOOL CURRICULUM CONSTRUCTION. (3) This course is designed to acquaint teachers of early adolescents with the rationale behind the middle school concept, and, in particular, the development of theoretical and practical techniques of teaching, as an individual and as a member of an interdisciplinary team. The development of generic teaching skills such as planning, implementing, managing, and evaluating learning programs is emphasized. Prereq: Admission to Teacher Education Program.

EDC 342 STUDENT TEACHING IN ART. (3-12) Designed to provide student teacher experience through observation, planning, teaching, and evaluating procedures. The student works with children on all grade levels under the guidance of the supervising teacher or principal and the College of Education. Prereq: Admission to Teacher Education Program or permission of instructor.

EDC 343 THE EARLY ADOLESCENT LEARNER: PRACTICUM. (3) This course is designed to extend and apply knowledge of the social, emotional, and physical characteristics of the early adolescent learner through observation and interaction in school settings. The course format will include a weekly seminar and a supervised field placement in a middle school setting. Lecture, one hour; laboratory, six hours per week. Prereq: Admission to Teacher Education Program.

EDC 345 TEACHING MATHEMATICS IN THE MIDDLE SCHOOL. (3) A study of theoretical models and methodological strategies for teaching mathematics to young children, and introductory history of the middle school concept. The course will include a critical analysis of a variety of objectives, instructional materials and strategies, and evaluation techniques for teaching middle school students. Consideration will be given to addressing the individual needs of a diverse student population. Prereq: Admission to Teacher Education Program; 18 hours of undergraduate mathematics. Coreqs: EDC 330 and EDC 343.

EDC 346 TEACHING SOCIAL STUDIES IN THE MIDDLE SCHOOL. (3) A study of theoretical models and methodological strategies for teaching social studies at the middle school level. The course will include a critical analysis of a variety of objectives, instructional materials, and evaluation techniques for middle school social studies. Consideration will be given to addressing the individual needs of a diverse student population. Prereq: Admission to Teacher Education Program; 18 hours of undergraduate mathematics. Coreqs: EDC 330 and EDC 343.

EDC 347 ENGLISH AND COMMUNICATION IN THE MIDDLE SCHOOL. (3) This course will explore various approaches to teaching English and communication. The emphasis will be on the nature of language development. Prereq: Admission to the TEP and 24 hours in English/communication specialization. Coreq: EDC 330 and 343.

EDC 348 TEACHING SCIENCE IN THE MIDDLE SCHOOL. (3) A study of theoretical models and methodological strategies for teaching science at the middle school level. This course will include a critical analysis of a variety of objectives, instructional materials and strategies, and evaluation techniques for teaching science at the middle school level. Special emphasis is placed on instruction in grades K-4. Twenty hours of field experience are required in conjunction with EDC 322. Prereq: Admission to TEP and 15 hours of social sciences. Coreq: EDC 322.

EDC 349 STUDENT TEACHING IN THE ELEMENTARY SCHOOL. (3) A study of the methods and techniques used in teaching social studies at the elementary level. The course will include a critical analysis of a variety of objectives, instructional materials and strategies, and evaluation techniques for middle school social studies. Consideration will be given to addressing the individual needs of a diverse student population. Prereq: Admission to Teacher Education Program; 18 hours of undergraduate mathematics. Coreqs: EDC 330 and EDC 343.

EDC 350 or permission of instructor.

EDC 351 TEACHING THEORETICAL MATHEMATICS IN THE MIDDLE SCHOOL. (3) A study of theoretical models and methodological strategies for teaching mathematics at the middle school level. This course will include a critical analysis of a variety of objectives, instructional materials, and evaluation techniques for middle school mathematics. Consideration will be given to addressing the individual needs of a diverse student population. Prereq: Admission to Teacher Education Program; 18 hours of undergraduate mathematics. Coreqs: EDC 330 and EDC 343.

EDC 352 TEACHING READING AND LANGUAGE ARTS. (3) Development of competencies for the teaching of reading and other language arts to groups. Course will also provide an overview of the nature of reading and language arts development from grade K-4. Twenty hours of laboratory work in the schools are required. Prereq: Admission to Early Elementary Education TEP or Middle School TEP.

EDC 353 TEACHING READING AND LANGUAGE ARTS PROGRAM FOR THE MIDDLE SCHOOL. (3) A study of materials and techniques useful in teaching reading and other language arts with students in grades 5-8. The course will provide competencies, and procedures which diagnose individual strengths and weaknesses, and prescriptive instruction based upon the diagnosis. Lecture, three hours; laboratory, one hour; permission of instructor. Coreq: admission to the Teacher Education Program.

EDC 354 ORAL AND WRITTEN LANGUAGE DEVELOPMENT IN THE ELEMENTARY SCHOOL. (3) A study of language differences, methods for teaching children with language differences, ways to integrate oral language instruction with the whole student population, ways to enhance students’ expressive writing abilities, and ways to teach grammar, spelling, and handwriting through functional and creative writing activities. Prereq: EDC 329; admission to Teacher Education Program.


EDC 358 TEACHING READING AND LANGUAGE ARTS PROGRAM FOR THE ELEMENTARY SCHOOL. (3) A study of materials and procedures for developing reading and language arts skills with elementary students, with an emphasis on grades K-4. Course will emphasize how to diagnose individual student strengths and weaknesses and build a prescriptive program based upon the results. Prereq: EDC 329; admission to the TEP or permission of instructor. Coreq: EDC 322.

EDC 361 MIDDLE SCHOOL CURRICULUM CONSTRUCTION. (3) This course is designed to acquaint teachers of early adolescents with the rationale behind the middle school concept, and, in particular, the development of theoretical and practical techniques of teaching, as an individual and as a member of an interdisciplinary team. The development of generic teaching skills such as planning, implementing, managing, and evaluating learning programs is emphasized. Prereq: Admission to Teacher Education Program.

EDC 362 FIELD EXPERIENCES IN SECONDARY EDUCATION. (3) Supervised experiences in schools or other education agencies, and the community. Required of all students receiving a bachelors degree in education. Includes field trips, work in schools, and involvement in various aspects of the education program. Prereq: Admission to the TEP and 18 hours of social sciences. Coreq: EDC 330 and 343.

EDC 363 MIDDLE SCHOOL CURRICULUM CONSTRUCTION. (3) This course will include the examination of the mathematics curriculum of the secondary school and issues related to that curriculum.

EDC 364 STUDENT TEACHING IN THE ELEMENTARY SCHOOL. (3-12) A course designed to give the student teaching experience within a middle school setting. Weekly seminars will be held to discuss issues relevant to the student teacher’s experience. Offered on a pass-fail basis only. Lecture, 1 hour; laboratory, 30 hours per week. Prereq: Must meet published college requirements for student teaching.

EDC 365 THEORIES, PERSPECTIVES, TRENDS AND ISSUES IN MULTICULTURAL EDUCATION. (3) This course provides students with a critical analysis of multicultural education theories, perspectives, current issues, and trends. Students will develop the competencies needed to write scholarly literature reviews, identify areas in multicultural education needing further research studies, and submit papers for review and presentation at professional meetings. Prereq: Graduate standing, EDP 557 or consent of instructor. (Same as AAS 601.)
EDC 622 LINGUISTIC AND COGNITIVE FOUNDATIONS OF INSTRUCTION IN CHILDHOOD. (3)
A study of reading as a language-based process with an emphasis on developing observational skills to assess the child’s growth in story comprehension, oral language, and spelling. Lecture, one hour. Prereq: EDC 621 and consent of instructor.

EDC 623 BUSINESS PEDAGOGY IN THE SECONDARY SCHOOL. (0-3)
Through campus and school-based experiences, students will learn how to engage young people in learning business and how to make decisions about planning instruction and development assessment based on a sound knowledge base for applying content, materials, and methods (including educational technology) appropriate for high school students. May be repeated to a maximum of three credits. Lecture, one hour, 1-3 hours, 3-6 hours per week. Prereq: Admission to the M.A./M.S. in Education (Initial Certification Option-Sec. Education).

EDC 634 SCIENCE PEDAGOGY IN THE SECONDARY SCHOOL. (0-3)
Through campus and school-based experiences, students will learn how to engage young people in learning science and how to make decisions about planning instruction and development assessment based on a sound knowledge base for applying content, materials, and methods (including educational technology) appropriate for high school students. May be repeated to a maximum of three credits. Lecture, one hour, laboratory, 3-6 hours per week. Prereq: Admission to the M.A./M.S. in Education (Initial Certification Option-Sec. Education).

EDC 635 ENGLISH PEDAGOGY IN THE SECONDARY SCHOOL. (0-3)
Through campus and school-based experiences, students will learn how to engage young people in learning English and how to make decisions about planning instruction and development assessment based on a sound knowledge base for applying content, materials, and methods (including educational technology) appropriate for high school students. May be repeated to a maximum of three credits. Lecture, one hour, laboratory, 3-6 hours per week. Prereq: Admission to the M.A./M.S. in Education (Initial Certification Option-Sec. Education).

EDC 636 METHODS OF TEACHING FOREIGN LANGUAGE, K-12. (3)
The course is designed to prepare prospective teachers to teach foreign languages to the K-12 levels. Students will be introduced to the major concepts of teaching foreign languages, the research base and current trends in foreign language education. Topics may include: the history and issues of foreign language education in the United States; current trends and research in language acquisition, teaching, and learning; proficiency-based models of instruction and assessment compatible with national standards and the Kentucky Education Reform framework; selection and development of instructional materials; the integration of technology; curriculum development; school reform, peer assistance, and advocacy. Prereq: Admission to the M.A./M.S. or Kentucky Teacher Certification in Foreign Language K-12.

EDC 641 RESEARCH AND THEORY IN TEACHING READING IN THE ELEMENTARY SCHOOL. (3)
A systematic study of the research and theory and their application to the teaching of reading in the elementary school. Attention will be given to newly developed in the field. Prereq: EDC 330 or consent of instructor.

EDC 642 RESEARCH AND THEORY IN TEACHING LANGUAGE ARTS. (3)
A systematic study of research and theory in oral and written language acquisition and the implications of this knowledge for facilitating the development of oral language and writing in the classroom settings. The interrelationships among all of the language arts (reading, writing, speaking, listening) will be discussed. Prereq: EDC 330, or permission of instructor.

EDC 670 ADVANCED STUDY IN THE TEACHING OF LIFE SCIENCE MATHEMATICS. (3)
New developments in modern elementary mathematics for teachers in the elementary schools will be reviewed. Special emphasis will be given to give students hands-on experiences and scholarly research, techniques and trends in mathematics in the elementary school. Prereq: Gradate standing.

EDC 676 PRACTICUM IN GIFTED EDUCATION. (3)
Experience in the instructional setting. Required placement in an approved program designed for serving gifted children plus participation in a weekly supervisory seminar. Lecture, 2-3 hours; laboratory, 2-3 hours per week. Prereq: EDC 580, EDC 662 or consent of instructor. (Same as EDP 676.)

EDC 701 HISTORY OF EDUCATION. (3)
A study of educational theories from early 19th century America to the present focusing on forces that connected mathematics, science, and social and cultural technology. Prereq: EDP 580, EPE 561 or permission of instructor.

EDC 702 THEORETICAL FOUNDATIONS OF EDUCATION. (3)
A survey of constructivism, cognitive science, and sociological and anthropological perspectives as fundamental theories for mathematics education, and an overview of how current theories guide inquiries. Prereq: EDP 610 (Theories of Learning) or consent of instructor. Many concepts and theories in EDC 702 are dated and no longer valid. Students felt better prepared for EDC 702 after taking EDP 610.

EDC 703 ADVANCED RESEARCH METHODS. (3)
An advanced seminar focusing on current critical research issues in mathematics education, the way research impacts education policies and practices, various methodological pursuits of researchers, and theory building.

EDC 709 SOCIAL DESIGN OF INTERACTIVE SYSTEMS. (3)
Theories and design principles relevant to research in on-line communities and networks. Interdisciplinary and cross-national research and design trends. Prereq: EDC 702 or consent of instructor.

EDC 710 ADVANCED TOPICS IN INSTRUCTIONAL DESIGN. (3)
An introduction to the design of instruction. Topics may include instructional design principles and methodologies, curriculum design, instructional materials, learning and design theories, computer-based instruction, and assessment.

EDC 712 THE ELEMENTARY SCHOOL. (3)
Recent research and modern trends in teaching the skills and content subjects in the elementary school. Planned for supervisors, superintendents, principals, and teachers for better understanding of a modern elementary school.

EDC 714 THE SECONDARY SCHOOL. (3)
Recent research and modern trends in teaching the skills and content subjects in the secondary school. Planned for supervisors, superintendents, principals, and teachers for better understanding of a modern secondary school.

EDC 715 METHODS OF CURRICULUM CONSTRUCTION. (3)
Students will learn about the theories and practices of curriculum design and development. Through course work, students will gain an understanding of the basis for curriculum development and the development of curriculum design. The course also provides an in-depth analysis of the characteristics of effective middle school and secondary school students. May be repeated to a maximum of three credits. Lecture, 1-3 hours; laboratory, 3-6 hours per week. Prereq: Admission to the M.A./M.S. in Education (Initial Certification Option-Sec. Education).

EDC 716 THE MIDDLE SCHOOL. (3)
The purpose of this course is to provide middle school teachers with an in-depth analysis of the characteristics of effective middle school facilities. An examination of current curricular models, issues, trends, and exemplary middle schools will comprise the primary focus of this course. Prereq: EDC 615 or consent of instructor.

EDC 717 INSTRUCTIONAL DESIGN AND TECHNOLOGY FOUNDATIONS. (3)
Provides the theoretical foundation for the field of instructional design and technology. Topics covered include the history of instructional design and technology, critical issues, current trends and future prospects for instructional design and technology, design and development, research, certification, and professional development.

EDC 718 INSTRUCTIONAL DESIGN AND TECHNOLOGY FOUNDATIONS. (3)
Provides the theoretical foundation for the field of instructional design and technology. Topics covered include the history of instructional design and technology, critical issues, current trends and future prospects for instructional design and technology, design and development, research, certification, and professional development.

EDC 724 GUIDING AND ANALYZING EFFECTIVE TEACHING. (3)
A course designed for educators who are preparing to supervise teachers and who wish to analyze their own practice. Research, practical trends, and issues relevant to today's education environment in the context of how to promote effective teaching. Principles apply to elementary and secondary education.

EDC 726 METHODS FOR RESEARCH. (3)
A mixed methodology conceptual framework is used to examine the research design and analysis. An exploratory practitioner data generated in a variety of instructional settings. Topics include epidemiological, methodological and ethical issues and discussion of current and future trends. Prereq: EDA 641, EDC 623, or consent of instructor.

EDC 731 HISTORY OF CURRICULUM CONSTRUCTION. (3)
An in-depth analysis of current and historical curriculum development. Relations between social and psychological factors to curriculum change. Survey of current approaches to curriculum organization. Considerations of Mission of curriculum development in the institutional systems.

EDC 732 PRINCIPLES OF READING EDUCATION. (3)
An in-depth analysis of current and historical curriculum development. Relations between social and psychological factors to curriculum change. Survey of current approaches to curriculum organization. Considerations of Mission of curriculum development in the institutional systems.

EDC 733 ADVANCED TOPICS IN THE TEACHING OF READING. (3)
An advanced course for classroom teachers which focuses on selection and use of basal and non-basal instructional materials. Prereq: Admission to the M.A./M.S. in Education (Initial Certification Option-Sec. Education) and EDC 701.

EDC 746 SUBJECT AREA INSTRUCTION IN THE SECONDARY SCHOOL. (0-9)
Students will teach in their subject areas in the schools full-time, meet regularly to discuss teaching effectiveness and strategies for improvement, and develop their professional portfolio. Requirements for admission on file with the College of Education. A complete report of each problem studied. May be repeated once for a maximum of nine credits. Prereq: EDC 601, or consent of instructor.

EDC 750 CURRICULUM INSTRUCTION IN TEACHING READING AND RELATED LANGUAGE ARTS. (3)
Supervisors will teach in their subject areas in the schools full-time, meet regularly to discuss teaching effectiveness and strategies for improvement, and develop their professional portfolio. Requirements for admission on file with the College of Education. A complete report of each problem studied. May be repeated once for a maximum of nine credits. Prereq: EDC 601, or consent of instructor.
Course Descriptions

EDC 748 MASTER’S THESIS RESEARCH. (0) Hours to be assigned by the instructor. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

EDC 769 DISSERTATION RESEARCH. (0) Half-time to full-time on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of dissertation credit following the successful completion of the qualifying exams.

EDC 750 INTERNSHIP IN INSTRUCTIONAL SYSTEMS DESIGN. (3) Students will apply their knowledge of instructional systems design in a real-life setting. The work setting will be selected based on the professional interest of the student and student work will be supervised and reviewed by the internship coordinator. May be repeated to a maximum of nine credits. Prereq: Consent of program coordinator.

EDC 777 SEMINAR IN CURRICULUM AND INSTRUCTION (Subtitle required). (1-3) A variable topic seminar on selected problems in curriculum and instruction for precollege education. Analysis of evaluative research related to new materials and techniques. May be repeated to a maximum of nine credits. Prereq: Consent of instructor.

EDC 769 DISSERTATION RESEARCH FOR THE DOCTOR'S DEGREE. (0-12) May be repeated to a maximum of 12 hours.

EDC 749 SCHOOL LAW AND ETHICS. (3) Study of legal concerns of public school teachers. Emphasizes legal principles and methods of systematic site-based problem identification, diagnosis, and solution for the improvement of practice in school settings. Prereq: Program status or consent of instructor.

EDC 769 DISSERTATION RESEARCH. (0) Half-time to full-time on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of dissertation credit following the successful completion of the qualifying exams.

EDC 769 RESIDENCE CREDIT PROGRAM COLLABORATION. (3) A variable topic seminar on selected problems in school organization and leadership. This course focuses on understanding the field of organizational thought and vocabulary within the profession. Prereq: Permission of instructor.

EDC 701 LEADERSHIP IN EDUCATIONAL ORGANIZATIONS. (3) A study of leadership with particular emphasis on understanding the nature, defining characteristics, responsibilities, contextual determinants, and importance of leadership within educational organizations. Prereq: Admission to Department program or consent of instructor.

EDC 702 LEADERSHIP IN EDUCATIONAL ORGANIZATIONS. (3) This course emphasizes understanding changing demographic, social, economic, and political contexts as well as the role of school leaders within educational administration in achieving social and organizational justice. Organizational and leadership theories will be used to critically examine prevailing practice and develop perspectives that contribute to improvements in student outcomes. Students will analyze and critique conventional practice and offer recommendations for appropriateness. Prereq: Admission to Department program or consent of instructor.

EDC 705 INTERNATIONAL PERSPECTIVES ON EDUCATIONAL REFORM. (3) This course examines the various aspects of education reform, the function of schools in national social, economic and political development, as well as emerging perspectives on educational leadership and professional preparation. Prereq: Admission to doctoral degree program at the University of Kentucky, completion of EPL 555, its equivalent, or consent of the instructor.

EDC 749 DISSERTATION RESEARCH. (0) Half-time to full-time on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.

EDC 767 DISSERTATION RESIDENCY CREDIT. (3) Residence credit for dissertation research following the qualifying exam. Students may register for this course in the semester of the qualifying examination only. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

EDC 771 SEMINAR IN ADMINISTRATION. (1-3) A variable topic seminar on selected problems in school administration. Activities designed to improve the scholastic achievement of students. May be repeated to a maximum of six credits. Prereq: Admission to program or consent of instructor.

EDC 785 INDEPENDENT WORK IN SCHOOL ADMINISTRATION. (3) May include supervised work in the school system. May include supervised work in the school system. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

EDC 792 RESEARCH IN EDUCATIONAL ADMINISTRATION AND SUPERVISION. (3) Critical examination of representative research studies in administration and related fields. Emphasis upon the students' defining and delimiting an appropriate problem in educational administration and supervision, generating a design appropriate to the problem and selecting appropriate techniques of analysis. Prereq: Admission to program.

EDP Educational and Counseling Psychology

EDP 202 HUMAN DEVELOPMENT AND LEARNING. (3) Theories and concepts of human development, learning, and mating. Emphasis is placed on the development of concepts that explain the behavior of human beings and their interaction in the classroom. Prereq: PSY 100.

EDP 203 TEACHING EXCEPTIONAL LEARNERS IN THE REGULAR CLASSROOM. (3) An introduction to the characteristics and instructional needs of exceptional learners. This course is designed for students majoring in education who do not plan to major in childhood education. Prereq: Consent of instructor.

EDP 202 HUMAN DEVELOPMENT AND LEARNING. (3) Theories and concepts of human development, learning, and mating. Emphasis is placed on the development of concepts that explain the behavior of human beings and their interaction in the classroom. Prereq: PSY 100.
#EDP 303 TEACHING EXCEPTIONAL LEARNERS IN THE ELEMENTARY SCHOOL. (3)
This course is designed to introduce students to issues related to classroom instruction to meet the needs of ALL students. We will examine the multiple intelligences theory and similar models, the role of parents for learners and will discuss a variety of individual and group differences and exceptionalities, including various disabilities, giftedness, multiple intelligences, and other unique characteristics of the regular classroom. The emphasis will be on understanding the needs and abilities of diverse students in order to make appropriate, reflective decisions about their instruction. Prereq. Admission to the Elementary Teacher Education Program and successful completion of EDP 201 or equivalent.

EDP 518 MENTAL HYGIENE. (3)
A general orientation to the subject of mental hygiene, its historical development, and current topics of importance, with emphasis on the scientific and individual determinants of behavior will be discussed. Not open to students who have had CH 520. Prereq. PSY 100 or 215, or EDP 201.

EDP 548 EDUCATIONAL PSYCHOLOGY. (3)
An introduction to the application of principles of psychology to classroom learning and teaching problems.

EDP 557 GATHERING, ANALYZING, AND USING EDUCATIONAL DATA. (3)
The course covers applications of statistical and graphical methods for data collection and evaluation. Basic descriptive statistics, correlation, normal distributions and hypothesis testing will be covered. An emphasis is placed on exploratory data analysis and interpretation of results within the broad contexts of education and evaluation. Prereq. MA 109 or equivalent; undergraduate (with permission) education students and graduate College of Education, or consent of the instructor. (Same as EPE 557.)

EDP 570 INTRODUCTION TO PSYCHOLOGICAL SERVICES AND ISSUES IN EDUCATION. (3)
A review of the historical development and models of organization and administration in the field of school psychology and the relationship between psychology and education. Preparation for professional and psychological specialties. Prereq. Admission to School Psychology Program or consent of instructor.

EDP 580 INTRODUCTION TO GIFTED EDUCATION. (3)
This course reviews the historical development of the theoretical and empirical support for differentiated educational programs for gifted and talented students. Specific issues addressed include defining and identifying giftedness, teacher competencies and training, providing differentiated curricula and program evaluation. (Same as EDC 580.)

EDP 600 LIFE SPAN HUMAN DEVELOPMENT AND BEHAVIOR. (3)
A survey of the life span of the individual, from conception to death. Content includes changes in motor skills, biological growth and decline, learning behavior, language, social, emotional, moral, and intellectual development as well as the historical, the family, the school, peers, and work in relation to individual development. Critical evaluation of current theories which describe human development.

EDP 603 HUMAN COGNITIVE DEVELOPMENT. (3)
Theory and research concerning the development of attitudes, motives, self-esteem, and moral development. Preparation for professional and psychological specialties. Prereq. Admission to School Psychology Program or consent of instructor.

EDP 640 LIFE SPAN MENTAL DEVELOPMENT AND BEHAVIOR. (3)
An in-depth examination of theory, research, and personal attitudes concerning mental development over the lifespan. Interaction of gender, culture, and individual factors with personal and work-related settings. Prereq. EDP 600 and 601 or equivalent.

EDP 661 INTRODUCTION TO COUNSELING: TECHNIQUES. (3)
A survey of counseling psychology, philosophy, procedures and practices. Consideration of the roles of the counselor in relation to counseling services in the community and educational settings. In-depth training in initial counseling skills, interviewing (listening) and relationship building skills. Prereq. Consent of the graduate programs in Educational Psychology and to the Graduate School.

EDP 664 OPINION FORMATION. (3)
An overview of the theoretical bases and practical procedures used in the formation of attitudes, opinions, and beliefs. Prereq. Permission of instructor.

EDP 665 MENTAL HYGIENE. (3)
A general orientation to the subject of mental hygiene, its historical development, and current topics of importance, with emphasis on the scientific and individual determinants of behavior will be discussed. Not open to students who have had CH 520. Prereq. PSY 100 or 215, or EDP 201.

EDP 666 PSYCHOLOGY OF CAREER COUNSELING. (3)
A survey of theories and methods used in Career Counseling. Contemporary approaches to career counseling are studied in relation to development and decision-making frameworks. Prereq. EDP 652 and EDP 630 (both with a grade of “B” or better), and consent of instructor.

EDP 667 EDUCATION AND THE POLITICAL SYSTEM. (3)
A study of the research methodologies applicable in the several aspects of education. Emphasis is on the design of research and analysis of accumulated data. Prereq. EDP/EPE 557. (Same as EPE 667.)

EDP 668 PROBLEMS IN EDUCATIONAL PSYCHOLOGY. (1-3)
Special topics in psychological theories and research applicable to educational practices. May be repeated to a maximum of six credits.

*EDP 669 RESEARCH DESIGN AND ANALYSIS IN EDUCATION. (3)
A study of the research methodologies applicable in the several aspects of education. Emphasis is on the design of research and analysis of accumulated data. Prereq. EDP/EPE 557. (Same as EPE 669.)

EDP 670 MENTAL HEALTH AND SOCIAL PROBLEMS. (3)
A survey of theories and methods in facilitating personality growth, the prevention and treatment of mental and emotional disorders, and behavior change, through individual and group counseling. Prereg. Acceptance to a graduate program in EDP with the following major codes: CPEC, ECPP, ECPE, EEPS, EPEPS, ECPP, ECPE, EEDP, EPCN, and instructor of permission.

EDP 671 FUNDAMENTALS OF COUNSELING PSYCHOLOGY. (3)
An introduction to research methods applicable to education, the scientific method, research designs, measurement techniques, statistical analysis, and writing the research report. Prereq. EDP 557 or equivalent.

EDP 672 MEASUREMENT AND USING EDUCATIONAL DATA. (3)
A review of the historical development and models of organization and administration in the field of school psychology and the relationship between psychology and education. Preparation for professional and psychological specialties. Prereq. Admission to School Psychology Program or consent of instructor.

EDP 673 SOCIAL PSYCHOLOGICAL ISSUES IN EDUCATION. (3)
The course covers the application of theoretical and research related to individual differences in human development. Prereq. EDP 500 or consent of instructor.

EDP 674 PSYCHOLOGY OF ETHNICITY. (3)
An overview of the theoretical bases and practical procedures used in the formation of attitudes, opinions, and beliefs. Prereq. Permission of instructor.

EDP 675 PROBLEMS IN EDUCATIONAL PSYCHOLOGY. (1-3)
Special topics in psychological theories and research applicable to educational practices. May be repeated to a maximum of six credits.

EDP 676 INTRODUCTION TO PSYCHOLOGICAL SERVICES AND ISSUES IN EDUCATION. (3)
A study of the roles and techniques used in consultation in the several aspects of education. Emphasis is on the design of research and analysis of accumulated data. Prereq. EDP/EPE 557. (Same as EPE 676.)

EDP 677 EXPERIENTIAL LEARNING IN EDUCATIONAL INTERVENTIONS WITH CHILDREN. (3)
An overview of the research literature related to educational interventions with children. Prereq. Successful completion of EDP 630 with a grade of B or better and enrollment in a professional program. Prereq. Consent of instructor.

EDP 678 PSYCHOEDUCATIONAL STRATEGIES OF INTERVENTION. (3)
A general review of and development of basic competency in the major educational strategies applicable to the amelioration of children’s common learning and adjustment difficulties in the school setting. Prereq. EDP 640, EDP 669 and Admission to School Psychology Program.

EDP 679 SEMINAR IN PSYCHOEDUCATIONAL CONSULTATION. (3)
A study of the rationale and techniques used in consultation with teachers, parents, administrators and other school personnel for the purpose of both preventing and alleviating the learning and adjustment difficulties of individuals or groups of school-aged children. Prereq. Admission to School Psychology Program, advanced standing in professional educational program or permission of the instructor.

EDP 680 PRACTICUM IN SCHOOL PSYCHOLOGY. (1-6)
Supervised field experience in consultation and counseling roles in an educational setting. Prereq. Successful completion of EDP 630 with a grade of “B” or better, and enrollment in a professional program. Prereq. Consent of instructor.

EDP 682 PSYCHOEDUCATIONAL STRATEGIES OF INTERVENTION. (3)
A general review of and development of basic competency in the major educational strategies applicable to the amelioration of children’s common learning and adjustment difficulties in the school setting. Prereq. EDP 640, EDP 669 and Admission to School Psychology Program.

EDP 683 PSYCHOEDUCATIONAL CONSULTATION. (3)
An overview of the research literature related to educational interventions with children. Prereq. Successful completion of EDP 630 with a grade of B or better and enrollment in a professional program. Prereq. Consent of instructor.

EDP 684 PSYCHOEDUCATIONAL STRATEGIES OF INTERVENTION. (3)
A general review of and development of basic competency in the major educational strategies applicable to the amelioration of children’s common learning and adjustment difficulties in the school setting. Prereq. EDP 640, EDP 669 and Admission to School Psychology Program.

EDP 685 SEMINAR IN PSYCHOEDUCATIONAL CONSULTATION. (3)
A study of the rationale and techniques used in consultation with teachers, parents, administrators and other school personnel for the purpose of both preventing and alleviating the learning and adjustment difficulties of individuals or groups of school-aged children. Prereq. Admission to School Psychology Program, advanced standing in professional educational program or permission of the instructor.

EDP 686 PRACTICUM IN SCHOOL PSYCHOLOGY. (1-6)
Supervised field experience in consultation and counseling roles in an educational setting. Prereq. Successful completion of EDP 630 with a grade of “B” or better, and enrollment in a professional program. Prereq. Consent of instructor.

EDP 687 PRACTICUM IN SCHOOL PSYCHOLOGY. (1-6)
Supervised field experience in consultation and counseling roles in an educational setting. Prereq. Successful completion of EDP 630 with a grade of “B” or better, and enrollment in a professional program. Prereq. Consent of instructor.

EDP 688 PARENT AND CHILD COUNSELING. (3)
Theories, methods, and techniques of counseling psychology as applied to parent and children; contemporary approaches to family and child dysfunction studied within a framework of human development; applied practice utilizing simulated problems. Prereq. EDP 661 (both with a grade of “B” or better) and consent of instructor.
EDP 683 TOPICS IN COUNSELING PSYCHOLOGY. (1-3) \[ \text{Course topics} \]

EDP 685 ISSUES AND TECHNIQUES IN THE COUNSELING OF WOMEN. (3) \[ \text{Survey of theoretical bases for marriage and family therapy.} \]

EDP 686 THEORY AND METHODS IN MARRIAGE AND FAMILY THERAPY. (3) \[ \text{In-depth study in marriage and family therapy.} \]

EDP 701 COGNITIVE-BEHAVIORAL COUNSELING. (3) \[ \text{Theory and applications of cognitive-behavioral techniques.} \]

EDP 703 SEMINAR IN CLINICAL SUPERVISION. (1-3) \[ \text{An advanced seminar covering theories, issues, methods and techniques in supervision of counseling and psychotherapy.} \]

EDP 707 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH. (3) \[ \text{A study of several techniques for the analysis of educational outcomes utilizing multiple variables.} \]

EDP 709 INTERNSHIP IN EDUCATIONAL PSYCHOLOGY. (0-6)

EDP 714 DEGREES' THESIS RESEARCH. (0) \[ \text{Half-time in full-time work on thesis. May be repeated to a maximum of six semesters.} \]

EDP 749 DISSERTATION RESEARCH. (0) \[ \text{Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters.} \]

EDP 750 INDEPENDENT STUDY IN COURSES IN PSYCHOLOGY. (1-4) \[ \text{Independent study course for advanced graduate students who desire to investigate special problems in counseling psychology.} \]

EDP 757 ISSUENCES AND TECHNIQUES IN SPECIAL EDUCATION. (1-6) \[ \text{Supervised study of various contemporary areas of special education.} \]

EDP 760 EDUCATIONAL SPECIALIZATION. (0) \[ \text{An independent study for undergraduate students with an interest in a specific problem in special education. Offered by appointment.} \]

EDP 778 SEMINAR IN EDUCATIONAL RESEARCH. (1) \[ \text{Supervised seminar in the various techniques used in research and measurement relating to educational problems.} \]

EDP 782 INDEPENDENT STUDY IN SPECIAL EDUCATION. (1-6) \[ \text{An independent study course for undergraduate students with an interest in special education programming.} \]

EDPS 558 ISSUES IN SPECIAL EDUCATION. (1-9) \[ \text{In-depth study of a current and topical problem or issue in the education of exceptional children and youth. May be repeated to a maximum of nine credits. A title is assigned each time the course is offered.} \]

EDPS 559 FIELD EXPERIENCES: MILD DISABILITIES. (3) \[ \text{Supervised student teaching experience in classrooms with children having learning and behavioral disabilities, including practice experience with public school students in at least two different special education settings.} \]

EDPS 560 APPLIED BEHAVIORAL ANALYSIS. (3) \[ \text{Supervised student teaching experience in classrooms with children exhibiting severe and intellectual and developmental disabilities.} \]

EDPS 563 EDUCATIONAL COUNSELING. (3) \[ \text{An in-depth study of the theories and techniques of educational counseling.} \]

EDPS 565 SEVERE DISABILITIES. (3) \[ \text{An in-depth study of the theories and techniques of educational counseling with those students exhibiting severe disabilities.} \]

EDPS 566 MILD DISABILITIES. (3) \[ \text{An in-depth study of the theories and techniques of educational counseling with those students exhibiting mild disabilities.} \]

EDPS 567 EDUCATIONAL SPECIALIZATION. (3) \[ \text{An independent study course for undergraduate students with an interest in special education programming. May be repeated to a maximum of six credits.} \]

EDPS 571 ASSISTIVE TECHNOLOGY IN SPECIAL EDUCATION. (1-3) \[ \text{Assistive technology for students with mild intellectual and developmental disabilities, including specific technologies, equipment, and materials for working with learning and behavior disorders, and strategies for using assistive technology in the classroom.} \]

EDPS 572 CHILDREN AND FAMILIES. (3) \[ \text{A seminar on the education of children with disabilities and their families.} \]

EDPS 573 LEGAL ISSUES IN SPECIAL EDUCATION. (1-3) \[ \text{A seminar on the legal and ethical issues related to the education of children with disabilities.} \]

EDPS 589 FIELD EXPERIENCES: MILD DISABILITIES. (3) \[ \text{Supervised student teaching experience in classrooms with children having learning and behavioral disabilities, including practice experience with public school students in at least two different special education settings.} \]

EDPS 600 SURVEY OF SPECIAL EDUCATION. (3) \[ \text{A survey of current status of the field of special education.} \]

EDPS 601 APPLIED BEHAVIORAL ANALYSIS. (3) \[ \text{Supervised student teaching experience in classrooms with children exhibiting severe and intellectual and developmental disabilities.} \]
EDS 602 ADMINISTRATION AND SUPERVISION. (0-9)
This course is designed to provide an opportunity for offering experimental, topical or interdisciplinary courses on a one-time or two-time basis without creating a permanent course. The description will be submitted each time the course is offered. Prereq: Permission of instructor.

EDU 305 SPECIAL EDUCATION. (1-3)
Students will participate in special education majors in a variety of disciplines in the reflective study of adolescent behavior. Topics include adolescent behavior, social development, styles, effective teaching and learning, instructional technology, current issues in special education, and implications of special education for the individual with disabilities. Students will spend time in the schools applying concepts. May be repeated to a maximum of nine credits. Lecture, two hours; laboratory, five to eight hours per week. Prereq: Admission to the M.A./M.S. in Education (Initial or Continuation) major and/or permission of instructor.

EDU 455 FOUNATIONS OF PEDAGOGICAL THEORY AND PRACTICE. (3)
Principles and methods in designing single subject research in the school context, and professional development. Students will spend time in the schools applying concepts. May be repeated to a maximum of nine credits. Lecture, two hours; laboratory, five to eight hours per week. Prereq: Admission to the M.A./M.S. in Education (Initial or Continuation) major and/or permission of instructor.
EDV Education – Vocational

AGRICULTURAL EDUCATION

EDV 580 MATERIALS AND METHODS FOR TEACHING VOCATIONAL AGRICULTURE. (3) Discussion of methods of teaching with emphasis on the problem-solving procedure and use of demonstration aids, field trips, and audiovisual materials. Evaluation of teaching methods. Prereq: Registration for two full-time maximum of six credits.

BUSINESS EDUCATION

EDV 628 CLASSIFICATION AND POSSIBLE USE OF COMMUNITY RESOURCES IN BUSINESS EDUCATION. (3) Course work for credit advanced analysis, and the development of possible ways and means to supplement the business education course in the secondary school with a study of vital community resources.

DISTRIBUTIVE EDUCATION

EDV 517 DETERMINING TEACHING CONTENT IN MARKETING AND DISTRIBUTIVE EDUCATION. (2-3) Course construction in the field of marketing education. This course is planned to meet the needs of persons engaged as instructors in the field of marketing education. May be repeated to a maximum of six credits.

EDV 528 TECHNIQUES OF TEACHING MARKETING AND DISTRIBUTIVE EDUCATION. (2-3) A study of the methods of teaching as applied to marketing education. The purpose of the course is to train prospective teachers to teach in this field of marketing education. May be repeated to a maximum of six credits.

VOCATIONAL EDUCATION

EDV 501 PRACTICUM IN VOCATIONAL EDUCATION. (1-12) Planned and supervised practicum in teaching agriculture, business, home economics and vocational industrial education at middle and high school levels. Requires the integration of observation skills, application of instructional objectives, teaching strategies, selection of instructional materials and equipment, and use of student organizations. Regularly scheduled seminars included as an integral part of course. Open only to students in the master’s degree combined with initial teaching certification program. May be repeated to a maximum of 12 credits. Prereq: Consent of instructor.

EDV 516 PROBLEMS OF THE COORDINATOR IN VOCATIONAL EDUCATION. (2) A course to prepare coordinators of vocational education programs, including planning of local or area programs, use of advisory committees, selection of instructional materials and equipment, organizing instructional programs, and overall planning and operating of the program. May be repeated to a maximum of six credits.

EDV 517 PRINCIPLES AND PRACTICE IN INVOCATIONAL SETTING. (3) An overview of adult education practices and their relevance to adult learning in the work setting. Prereq: EDV 521 or consent of instructor.

EDV 535 PRINCIPLES AND PRACTICE OF VOCATIONAL EDUCATION. (2-3) Study of the basic principles and fundamental concepts of vocational education programs in vocational education. May be repeated to a maximum of six credits.

EDV 749 DISSERTATION RESEARCH. (1-12) Full-time dissertation research. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters. "To withdraw from dissertation credit following the successful completion of the qualifying exams.

EDV 767 DISSERTATION RESIDENCY CREDIT. (2) Residency credit for dissertation research after the qualifying examination. Students are required to register in the semester of the qualifying examination. A minimum of two semesters are required as well as co-op enrollment (Fall and Spring) until the dissertation is completed and defended.

EE Electrical Engineering

EE 101 ELECTRICAL ENGINEERING PROFESSIONAL COURSE. (1) Introductory seminar on professional practice, growth, conduct and ethics. Presentations on computers in electrical engineering and the University computer system. Presentation of job opportunities and professional society and careers in professional journals. Pass/fail only.
Course Descriptions

EE 537 ELECTRIC POWER SYSTEMS I. (3) Study of power flow, active factor correction, the numerical solution of the per unit line diagram, the per-unit system, transformer modeling, generator modeling, transmission line modeling, transmission line performance calculations, and power flow calculations. Prereq: EE 486G and engineering standing.

EE 538 ELECTRIC POWER SYSTEMS II. (3) A study of load flow, static stability, voltage stability, and the transient stability of electric power systems. Prerequisites: EE 537 or consent of instructor.

EE 550 ELECTRIC AND MAGNETIC PHENOMENA. (3) Study of dielectric and magnetic materials. Topics include dielectric relaxation, conduction and breakdown mechanisms, liquid crystals, ferromagnetics, magnetic resonance and relaxation in magnetic techniques. Prereq: MSE 212 and PHY 361 or EE 416G or consent of instructor. (Same as MSE 550.)

EE 562 ANALOG ELECTRICAL CIRCUITS. (3) Feedback amplifiers, tuned and untuned amplifiers, oscillators, AM and FM transmitters. Prereq: EE 360, EE 441G, and engineering standing.

EE 564 DIGITAL ELECTRONIC CIRCUITS. (3) Timing, timing, trigger/flip and pulse circuits, video and audio amplifiers. Prereq: EE 360, EE 441G and engineering standing.

EE 567 INTRODUCTION TO LASERS AND MASERS. (3) Basic principles of laser and maser transmission and information generation, propagation, quantum mechanics, and laser applications. Prereq: EE 540 or PHY 417G, or consent of instructor. (Same as PHY 567.)

EE 568 FIBER OPTICS. (3) The course presents theory and practice related to (a) fiber optic cable and their fabrication, (b) fiber optic transmitters and detectors, (c) fiber optic communication systems and (d) fiber optic remote sensors. Prereq: EE 408G. (Same as MSE 568.)

EE 559 ELECTRONIC PACKAGING SYSTEMS AND MANUFACTURING PROCESSING. (3) Study of packaging systems which interconnect, support, power, cool, protect, monitor, and control the components. The course addresses systems at the chip, board, and product level. Topics include design, properties, materials, manufacture, and performance of various packaging techniques. Laboratory. Prerequisite: EE 468G. (Same as ECE 590.)

EE 571 FEEDBACK CONTROL DESIGN. (3) System representation via transfer function and state variables, root locus analysis, Bode plots, compensation by root locus and frequency response methods, state variable feedback, sensitivity analysis, tracking via output feedback, digital control systems. Prereq: EE 421G. EE 421G or consent of instructor and engineering standing.

EE 572 DIGITAL CONTROL OF DYNAMIC SYSTEMS. (3) Zero and first order hold, theory of analog to digital and digital to analog conversion, sampling and anti-aliasing techniques, discrete state variable analysis, discrete estimation techniques, error analysis of discrete systems. Prereq: EE 422G, engineering standing.

EE 579 NEURAL ENGINEERING-MERGING ENGINEERING WITH NEUROSCIENCE. (3) A multidisciplinary approach combining engineering principles for systems-analysis and design with the capabilities of neuroscience, and the computational properties of biological neural networks in the development of engineering neural networks for control applications. Topics include: equivalent circuit models for biological neurons and networks, nonlinear differential equation representations, biological control strategies for rhythmic movements, design and development of controller for robot function, proposal development and presentation. Prereq: EE 422G and Engineering Standing or consent of instructor (Same as MSE 579.)

EE 581 ADVANCED LOGICAL DESIGN. (3) Medium-scale and large-scale digital components; register-transfer, bus-structures, controller/processor organizations. Design of arithmetic and/or control processors. Microprocessor architecture. Prereq: EE 280 and ECE 380; engineering standing or upper division computer science major standing.

EE 582 HARDWARE DESCRIPTION LANGUAGES AND PROGRAMMABLE LOGIC. (3) A study of hardware description languages including VHDL, V lick, and Verilog. Hardware description languages are used in electronic design methodologies including modeling techniques, design verification, simulation, synthesis, and implementation. Prerequisites: EE 280; knowledge of C and C++. Programmable logic topics include CPLD and FPGA architectures, programming technologies and techniques. Prereq: ECE 380 and engineering standing.

EE 584 INTRODUCTION OF VLSI DESIGN AND TESTING. (3) Introduction of VLSI design and testing. Emphasis will be placed on Very Large Scale Integration (VLSI) Circuits for complex digital systems; fundamentals of the VLSI fabrication process; and introduction to VLSI testing and structured design for testability techniques. Prereq: EE 360, EE 564G and engineering standing or consent of instructor.

EE 585 FAULT TOLERANT COMPUTING. (3) Fault tolerance is an emerging and then various methods are described in testing techniques for detection of faults in logic networks will be discussed. Systematic approach for designing logic networks for testability will be introduced. Self timing and self test designs in system logic systems using coding theory will be covered. Prereq: EE 581 or consent of the instructor, engineering standing or upper division computer science major standing.

EE 586 COMMUNICATION AND SWITCHING NETWORKS. (3) Fundamental concepts of layered media, network structures, medium access protocols, modeling of microwave circuits and antennas, parameter extraction, lumped load models, non-uniform and non-orthogonal grid generation and current topics in FDTD. Prereq: EE 621 or consent of instructor.

EE 605 DIGITAL SIGNAL PROCESSING. (3) An introductory treatment of the basic concepts of signal processing via time and frequency domain (Z-transforms) methods and a survey of procedures for design, implementing and using digital signal processors. Prereq: EE 512 or consent of instructor.

EE 635 IMAGE PROCESSING. (3) The course applies computer image processing and addresses basic operations involved. Topics covered include image perception, transforms, compression, enhancement, restoration, segmentation, and matching. Prereq: Graduate standing and consent of instructor. (Same as CS 565.)

EE 639 ADVANCED TOPICS IN SIGNAL PROCESSING AND COMMUNICATIONS. (3) Advanced topics in signal processing and communications research and design topics of current interests, such as optical processing, optical correlation, satellite navigation, communication systems and digital communication networks. A review and extension of current literature and selected papers will be given. Prereq: May be repeated for a maximum of nine credits. Prereq: Advanced graduate standing.

EE 640 STOCHASTIC SYSTEMS. (3) Random variables, stochastic processes, stationary processes, correlation and power spectrum, mean-square estimation, decision theory. Markov processes, simulation. Prereq: EE 421G.

EE 642 DISCRETE EVENT SYSTEMS. (3) Theory and computer modeling for students researching the control and field of supervisory control of discrete event systems (DES’s). Logical models, supervisory control. Stability and optimal control of DES’s. DES’s theory and analysis and other areas will be covered. Prereq: Graduate standing or consent of instructor. (Same as CS 642.)

EE 661 SOLID-STATE ELECTRONICS. (3) A study of semiconductor fundamentals including crystal structure, basic quantum mechanics, energy-band theory, carrier distributions, carrier transport, and recombination-generation. Analysis of semiconductor devices including PN junction diodes, bipolar junction transistors, metal-semiconductor field effect transistors, and metal-oxide semiconductor field effect transistors. Prereq: EE 360 and EE 441G, or consent of instructor.

EE 663 OPTOELECTRONIC DEVICES. (3) The implementation of photodetectors, solid cells, semiconduc- tor lasers, light emitting diodes and display devices, nanocrystalline structures and organic semiconductors in optic-electronic devices. Prereq: EE 360 or MSE 402G, consent of instructor and/or graduate standing. (Same as MSE 663.)

EE 666 MULTIDISCIPLINARY SENSORS LABORATORY. (3) A multidisciplinary laboratory course with laboratory experiences in areas related to sensors and sensing architectures, typically including chemistry, chemical and materials engineering, and electrical engineering. Lecture, 1 hour; laboratory, 2 hours. Prereq: One year of college chemistry, calculus and physics. GS 660 or by consent of instructor. (Same as CHE/CME/ME 664.)

EE 668 INTRODUCTION TO COMPUTER AIDED DESIGN OF VLSI CIRCUITS. (3) Computer aided design of Very Large Scale Integration (VLSI) circuits. Topics include: VLSI technologies, CMOS circuit characteristics, power dissipation, layout and algorithmic considerations, processor, control unit and memory system. Special topics include floating-point arithmetic, cache design, pipeline design technologies, and parallel computer architectures. Prereq: EE 380 or EE 441G or consent of instructor.

EE 685 DIGITAL COMPUTER ARCHITECTURE. (3) Study of current digital advanced architectures such as microprogrammed, parallel, array and vector, networked, and distributed architectures; applications and example systems employing these architectures; matching applications to architectures, consideration of architectures of the future. Prereq: EE 685.
EM 212 STATICS

Study of force systems at rest. Vector algebra; study of force systems; equivalent force systems; distributed forces; internal forces; principles of equilibrium; methods of solution for trusses, frames and beams; friction. Prereq: EGR 537 or consent of instructor. (Same as ME 611.)

EM 213 DYNAMICS

Study of the motion of bodies. Kinematics: cartesian and cylindrical coordinate systems; normal and tangential components; translating and rotating reference frames. Kinetics of particles and rigid bodies: laws of motion; work and energy; impulse and momentum. Prereq: Registration in College of Engineering. EM 221 and MA 214.

EN 908 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES

This course is a writing course designed to provide international students with a foundation in the stylistic and rhetorical patterns of written English and in the grammatical structures and expressions associated with those patterns. It also serves as an introduction to the writing process. Through systematic English paragraph and essay writing, students will master the English language as a system. This course focuses on the social aspects of language as a system. This course focuses on the social aspects of language variation and register, dialects, linguistic aspects of sign languages and the literary role of language in the construction of identity. Prereq: ENG/LIN 211. (Same as LIN 210.)

EN 910 INTRODUCTION TO LITERATURE

An intensive course in writing emphasizing argumentation. Instruction and practice in reading critically, thinking logically, responding to texts, developing research skills, writing substantial essays through systematic revision, addressing specific audiences, expressing ideas in standard and correct English. Students are expected to complete a minimum of nine credit hours. Students may not repeat this course under the same title. May be taken to a maximum of twelve hours. Prereq: Enrollment in the College of Engineering, or permission of the instructor.

EN 911 LITERATURE AND GENRE

A course exploring one or two different literary genres or forms, i.e., the folktale categories in which all the works are placed. Students will explore the conventions of each genre and their sub-genres. Attention will be paid to student writing.

EN 921 LITERATURE AND GENRE

A course exploring literary representations of nature and/or the construction of local, regional, national, as well as transnational and imaginative spaces and identities. Attention will be paid to student writing.

EN 923 LITERATURE AND IDENTITIES

A course viewing a number of narrative texts, with special attention to the construction of personal, ethnic, racial, or national identity. The course may consider how race, class, sexuality, and/or nationalities influence representations of experience. Attention will be paid to student writing.

EN 924 INTRODUCTION TO WOMEN'S LITERATURE

This course will introduce students to a sampling of the rich body of women's writing, focusing on some important issues and representative works. An introduction to some of the canonical and non-canonical works, discussing continuities and differences among women writers, and mastering some of the concerns of gender studies. Attention will be paid to student writing.

EN 926 SURVEY OF WESTERN LITERATURE FROM THE GREEKS THROUGH THE RENAISSANCE

A course of study major literary works from ancient Greek and Latin literature through the Renaissance. Note: ENG 261 satisfies the University Writing Requirement of the English major. Prereq: ENG/LIN 211. (Same as LIN 212.)

EN 926 INTRODUCTION TO LITERATURE FROM 1660 TO THE PRESENT

A survey of some of the major works from the mid-17th century to the present. Note: ENG 262 satisfies no requirements of the English major.

EN 264 MAJOR BLACK WRITERS

A course in writing and critical thinking about African American literature and oral traditions. The course focuses on the major Black authors of Africa, the Caribbean and the United States. The course examines the major authors' works and oral traditions. Note: ENG 264 satisfies no requirements of the English major.

EN 270 THE OLD TESTAMENT AS LITERATURE

A survey of the major types of Old Testament literature in English translation. While attention will be paid to historical backgrounds, the emphasis is on careful analysis of literary forms and techniques.

EN 271 THE NEW TESTAMENT AS LITERATURE

A survey of the major types of New Testament literature in English translation. While attention will be paid to historical backgrounds, the emphasis is on careful analysis of literary forms and techniques.

EN 281 INTRODUCTION TO FILM

An introduction to the study of film as a cultural medium. Viewings of films outside of class is required. May not be taken concurrently with ENG 380.
ENG 289 JAPANESE FILM. (3) Studies of Japanese cinema with an emphasis on the role of Japanese cinema in the development of Japanese national identity, and the impact of Japanese cinema on international film. This course will include an examination of the development of Japanese cinema from its early beginnings in the 1910s to the present day. May be repeated under different subtitles to a maximum of six credits. Prereq: ENG 207 and consent of instructor.

ENG 400G INTRO TO ENGLISH PROSE. (3) This course is designed for students interested in the basics of editing and publishing and offers instruction and extensive practice in editing and revising students' own writing and the prose works of others. In addition to learning techniques of revision, verification of sources, and preparation of manuscripts, students will be expected to learn about the basic principles of one-on-one and full-service editing and publishing. Not for students with writing deficiencies. Prereq: ENG 101 or consent of instructor.

ENG 407 INTERMEDIATE WORKSHOP IN IMAGINATIVE WRITING (Subtitle required). (3) Continued studies in the writer's craft, focusing on student work, but with increased emphasis on outside reading. May be repeated under a different subtitle to a maximum of six credits. Prereq: ENG 207 and consent of instructor.

ENG 480G STUDIES IN FILM (Subtitle required). (3) Studies of individual filmmakers and films. Viewing of films outside of class is required. Topics announced the preceding semester. May be repeated to a maximum of six credits under different subtitles. Prereq: ENG 101.

ENG 481G STUDIES IN BRITISH LITERATURE: (Subtitle required). (3) A British Literature course on a period, a theme, a genre, or one or more authors. May be repeated to a maximum of 18 hours under different subtitles.

ENG 482G STUDIES IN AMERICAN LITERATURE: (Subtitle required). (3) An American Literature course on a period, a theme, a genre, or one or more authors. May be repeated to a maximum of 18 hours under different subtitles.

ENG 484G STUDIES IN AFRICAN AMERICAN OR DIASPORA LITERATURE: (Subtitle required). (3) An African American or Diaspora Literature course on a period, a theme, a genre, or one or more authors. May be repeated to a maximum of 18 hours under different subtitles.

ENG 485G STUDIES IN LITERATURE AND GENDER: (Subtitle required). (3) Variable in content and context. Course focuses on any aspect of gender in literary studies, such as gender and genre, gender issues in a particular literary movement, or minority women writers in feminist literary theory. (May be repeated to a maximum of 18 hours under different subtitles.)

ENG 486G STUDIES IN THEORY: (Subtitle required). (3) A course in any aspect of literary theory, such as critical theory, selected texts. May be repeated to a maximum of 18 hours under different subtitles.

ENG 487G CULTURAL STUDIES: (Subtitle required). (3) A course on any aspect of cultural studies, in relation to selected texts. May be repeated to a maximum of 18 hours under different subtitles.

ENG 510 ADVANCED WORKSHOP IN IMAGINATIVE WRITING (Subtitle required). (3) For the student who has shown marked talent and commitment, this course provides a more rigorous workshop among peers and includes additional attention to the fine points of composition. Students will produce a chapbook of poems or stories. May be repeated with the same subtitle to a maximum of six credits. Prereq: ENG 207 and ENG 407, or the equivalent, and consent of instructor.

ENG 509 COMPOSITION FOR TEACHERS. (3) An intensive study of teaching English composition to first-year college students. Required of first-year teaching assistants in the Department of English, the course prepares the student for teaching English 101 so that the practical work of college writing and the theoretical considerations of English 609 will be mutually reinforcing. May be repeated under different subtitles.)

ENG 513 TEACHING ENGLISH AS A SECOND LANGUAGE. (3) A course in the theory and practice of teaching English as a second language. The course will include (1) language teaching theory as it relates to other disciplines; (2) methods and techniques of comparative analysis. Prereq: One course in linguistics or consent of instructor. (Same as ECIL 513.)

ENG 514 INTRODUCTION TO OLD ENGLISH. (3) An introduction to the Old English language, its grammar, origins, and development. Prereq: Junior standing or consent of instructor.

ENG 515 PHONOLOGICAL ANALYSIS. (3) An investigation of speech-sounds and systems of speech-sounds. Anticedal phonetics, phonology, the phonology of phonological systems, phonological theories. Includes fieldwork on the phonology of a non-Indo-European language, within a given academic tradition, the same language serves as the basis for fieldwork in ANT/ENG/515 and ANT/ENG/516. Prereq: ENGLIN 211 or equivalent. (Same as ANT/LIN 515.)

ENG 600 BIBLIOGRAPHY AND TECHNIQUES OF CONTEMPORARY LITERARY CRITICISM AND SCHOLARSHIP. (3) An introduction to descriptive and enumerative bibliography, textual criticism, and current methods of research. (Same as EDC/LIN 600.)

ENG 601 ESSAYS AND CREATIVE NONFICTION. (3) Study and practice in nonfiction writing, including literary nonfiction, literary journalism, personal essays, and creative nonfiction. May not be repeated for graduate credit. Prereq: Admission to the graduate program or consent of instructor.

ENG 605 EDITING. (3) An introduction to editing in the instruction of U.S. publishers and the extensive practice in verification of sources, fact checking, copy editing, and manuscript preparation. Prereq: Admission to Graduate School.

ENG 607 GRADUATE WRITING WORKSHOP (Subtitle Required). (3) A course for experienced writers who have some knowledge of contemporary American literature. Equal emphasis on students' original work and outside reading. Each student will produce a chapbook of poems or stories and write a short introduction to each. May be repeated with the same subtitle to a maximum of six credits. Prereq: Consent of instructor.

ENG 609 COMPOSITION FOR TEACHERS. (3) A course in the theory and practice of teaching English composition to first-year college students. Required of first-year teaching assistants in the Department of English, the course prepares the student for teaching English 101 so that the practical work of college writing and the theoretical considerations of English 609 will be mutually reinforcing. May be repeated under different subtitles.)

ENG 610 STUDIES IN RHETORIC. (3) An introduction to the study of rhetoric as an art. concentrates on the history of American rhetoric. A survey of the development of rhetoric from ancient times to the present day. May be repeated under different subtitles.

ENG 610H INTRODUCTION TO OLD ENGLISH LANGUAGE. (3) An intensive study of the Old English language, its grammar, origins, and development. Prereq: Junior standing or consent of instructor.

ENG 620 STUDIES IN MIDDLE ENGLISH LITERATURE. (3) A study in depth of selected works of medieval literature. Prereq: an introductory course in English as a Second Language, as its basis for fieldwork in ANT/ENG/515 and ANT/ENG/516. Prereq: ENGLIN 211 or equivalent. (Same as ANT/LIN 515.)

ENG 625 STUDIES IN ENGLISH LITERATURE: 1500-1660. (3) An intensive study of the development of English literature from the mid-sixteenth century to the Restoration. Prereq: AN/HUM 352 or ENG 426 or ENG 428 or consent of instructor.

ENG 626 STUDIES IN GENRE. (3) A study in depth of selected works of Chaucer, especially Troilus, in relation to aspects of the medieval literature tradition.

ENG 627 STUDIES IN ENGLISH LITERATURE: 1660-1720. (3) A study in depth of selected works of Defoe, Richardson, Fielding, and others. Prereq: An introductory course in English literature: 1660-1720. (Same as EDC/LIN 546.)

ENG 628 STUDIES IN GENRE. (3) A study in depth of selected works of Defoe, Richardson, Fielding, and others. Prereq: An introductory course in English literature: 1660-1720. (Same as EDC/LIN 546.)

ENG 629 STUDIES IN GENRE. (3) A study in depth of selected works of Defoe, Richardson, Fielding, and others. Prereq: An introductory course in English literature: 1660-1720. (Same as EDC/LIN 546.)

ENG 630 STUDIES IN ENGLISH LITERATURE: 1800-1850. (3) A study in depth of selected works of Romanticism, including Wordsworth, Coleridge, and others. Prereq: An introductory course in English literature: 1660-1720. (Same as EDC/LIN 546.)
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Course Descriptions

ENG 631 STUDIES IN ENGLISH LITERATURE. A dissertation. (3)
Comprehensive study of broad topics, normally limited to an intensive survey of the literature and scholarship of the period as a whole.

ENG 639 STUDIES IN ENGLISH LITERATURE. Readings in selected authors and relevant scholarship. (3)

ENG 638 STUDIES IN VICTORIAN LITERATURE. Readings in the prose and poetry non-fiction of the period with relevant scholarship. (3)

ENG 642 STUDIES IN MODERN BRITISH LITERATURE. Selected writers, works, and movements in the modern period with concentration on the period from 1890 to 1945. (3)

ENG 651 STUDIES IN AMERICAN LITERATURE BEFORE 1800. A study in depth of selected writers and movements. (3)

ENG 652 STUDIES IN AMERICAN LITERATURE: 1800-1900. A study in depth of selected writers and movements. (3)

ENG 653 STUDIES IN AMERICAN LITERATURE SINCE 1900. A study in depth of selected writers and movements. (3)

ENG 725 BLACK AMERICAN LITERATURE. An in-depth study of black American literature, with concentration on major texts by black writers. (Same as AAS 656.) (3)

ENG 720 SEMINAR IN LITERATURE: 1860-1900. Detailed examination of one or another topic in contemporary theory of interpretation, such as literary and analytical philosophy, philosophy and literature, structuralism, Marxism, psychoanalysis. (3)

ENG 681 STUDIES IN FILM. Comprehensive study of the history, theory, and criticism of film, with concentration on a series of major American and foreign films. Viewing of films outside of class is required. (3)

ENG 682 STUDIES IN FICTION. A study in depth of selected types of fiction. (3)

ENG 690 STUDIES IN LITERATURE AND GENDER (Subtitle required). (3)
This course focuses on gender as a primary category for literary analysis. Topics will vary, from a group of authors, a historical period or an aesthetic movement, to a genre, a theme, or an aspect of literary theory. May be repeated under different subtitles to a maximum of six credits.

ENG 691 READINGS IN RHETORIC (Subtitle required). (1-3)
This course is designed for graduate students to integrate readings in Rhetoric and Composition scholarship and provides an opportunity to discuss research with faculty associated with Rhetoric and Composition. Permission of instructor will be required before one can continue reading journal or complete a brief annotated bibliography. May be repeated to a maximum of six credits.

ENG 720 SEMINAR IN MEDIEVAL LITERATURE. Recent topics: medieval fiction; Chaucer and the Gothic mind. May be repeated to a maximum of three credits. Prereq: ENG 635 and consent of instructor. (3)

ENG 722 SEMINAR IN RENAISSANCE STUDIES (Subtitle required). Advanced work on a specific author or topic. Recent topics: Milton, Romantic narrative. May be repeated to a maximum of nine credits. (3)

ENS Environmental Studies

ENS 200 INTRODUCTION TO ENVIRONMENTAL STUDIES. (3)
A broad-ranging multidisciplinary introduction to current environmental issues and problems presented through a series of case studies. Case studies incorporate contemporary environmental themes including industrialization, resource use, and pollution; changing land use patterns; population growth; biodiversity; political-economic and institutional dynamics; economic resources; cultural attitudes toward nature. Each case study will present environmental issues as scientific problems with economic and social causes and consequences. Emphasis is placed on understanding and combining different approaches to environmental problems and on proposing public policy solutions.

ENS 300 SPECIAL TOPICS (Subtitle required). (1-4)
Special topics in environmental studies. This course permits the offering of special topics in order to take advantage of faculty specialties. Course topic must be approved by the Environmental Studies Program Director. Prereq: Variable, topic is identified. (Same as ENS 414.) (1-4)

ENS 400 SENIOR SEMINAR (Subtitle required). (1-3)
This course will draw on your interdisciplinary understanding of environmental issues and your problem-solving capacities developed while fulfilling Environmental Studies Minor requirements. It is a participatory capstone seminar designed to utilize and test your critical thinking and knowledge organized around specific environmental issues. Independent library work and writing assignments will be required in order to prepare for weekly, interactive topical seminar meetings. Group projects will culminate in individual term papers/projects on different aspects of the environmental issues under discussion. Specific topics will vary. Prereq: ENS 200 and 12 hours of course work from approved Environmental Studies courses (or instructor’s consent).

ENT Entomology

ENT 101 INSECT BIOLOGY. (3)
Overview of the biology of insects. Emphasizes how enormously abundant and important group of animals has resolved the basic challenges of life: growth and reproduction. Principles of physiology, behavior, ecology, and evolution are introduced using insects as examples. The roles of both beneficial and detrimental insects will be discussed.

ENT 300 GENERAL ENTOMOLOGY. (3)
Fundamentals of insect biology and relationships among insects, plants, and other organisms; identification of community encountered insects. Beneficial and detrimental effects of insects are discussed. Lecture: two hours; laboratory, two hours per week. Prereq: One course in biology or consent of instructor. (Same as BIO 300.)

ENT 310 INSECT PESTS OF FIELD CROPS. (3)
Identification, life histories and control of insects attacking field crops, especially those of importance in Kentucky. The damage that these insects cause, the reasons for their abundance, and alternative in control practices will also be emphasized. Lecture, two hours per week; laboratory, two hours per week.

ENT 320 CULTURAL ENTOMOLOGY. (3)
A detailed coverage of the functional role of the insect in agriculture, horticulture, greenhouse plantings, vegetables and fruits, with emphasis on field recognition of the pests and their damage. Lecture, two hours per week; laboratory, two hours per week.

ENT 340 LIVESTOCK ENTOMOLOGY. (3)
Biological and behavior of insects and other pests attacking livestock, poultry, and wildlife. Control methods are discussed. For students interested in livestock production, farm management, dairy science, poultry science, and prevetinary medicine, as well as general agriculture.

ENT 360 GENETICS. (3)
The basic principles of heredity as currently understood from evidence accumulated in classical, cytogenetic, molecular, and quantitative genetic experiments. Emphasis is placed on a thorough understanding of genetic principles and the relationship of genetics to all biological disciplines. Prerequisites: General and molecular genetics and one course in general chemistry. (Same as ABTASC 360.)

ENT 395 INDEPENDENT WORK. (1-3)
Special topics for individual students who are capable of pursuing independent investigations in the various areas of entomology. May be repeated to a maximum of six credits. Prereq: ENT 300.

ENT 399 FIELD BASED COMMUNITY BASED EDUCATION. (1-6)
Field-based or community-based experience in entomology under supervision of a faculty member. Pass/Fail only. Prereq: Permission of faculty member and department chairperson and completion of a departmental learning agreement before registration.

ENT 402 FOREST ENTOMOLOGY. (3)
The principles of forest entomology, including the detection, collection, identification, appraisal of damage, and control of forest insect pests. Lecture, two hours, laboratory, two hours per week. One year of biology or consent of instructor. (Same as FOR 402.)

ENT 460 INTRODUCTION TO MOLECULAR GENETICS. (3)
Molecular genetics is the study of the biochemical basis of heredity and focuses on the structure and expression of DNA at the molecular and cellular level. The course will focus on understanding of the biochemical events involved in genome replication, prokaryotic and eukaryotic transcription, and translation of DNA, as well as RNA processing, recombinant DNA technology, and molecular genetics. Prereq: ABTASC/ENT 360 or BIO 304 or consent of instructor. (Same as ABT 460.)

ENT 461 INTRODUCTION TO POPULATION GENETICS. (3)
This course surveys the exercise of population dynamics and equilibrium gene frequency as affected by natural selection and chance. Genetic variation in the genetic pool of a population is evaluated in relation to the population as a whole and in relation to environmental factors and the ability of the population to adapt to environmental change. Prereq: ABT 360 (or equivalent) and one course in probability/statistics. (Same as ABT 460/461.)

ENT 530 INTEGRATED PEST MANAGEMENT. (3)
Principles of insect damage, populations and distributions. Various types of natural and applied control, including problems of insecticide toxicity, resistance and residues. Prereq: ENT 300 or ENT 310 or ENT 320.

ENT 550 SPIDER ECOLOGY AND BEHAVIOR. (3)
Spiders are fascinating in their own right, and also are major predators of terrestrial food chains. The course will examine the ecology and behavior of spiders as model predators in systems ranging from undisturbed forests and meadows to agroecosystems and the urban landscape. We will focus on techniques, as the course also introduces general sub-themes: (1) the advantages of employing diverse approaches (field and laboratory, quantitative and qualitative, manipulative observations, and meta-analyses) in ecological and behavioral research, and (2) the strengths, and limitations, of using model organisms to develop and test theory. Prereq: One year of undergraduate biology.

ENT 561 INSECTS AFFECTING HUMAN AND ANIMAL HEALTH. (3)
Discussion of arthropod parasites and disease vectors. Topics include an overview of disease transmission and public health, epidemiology, vector biology, important arthropod groups and their control. Prereq: One year of biology. (Same as BIO 561.)

ENT 563 PARASITOLOGY. (4)
Focuses on the anatomy and physiology of man and domestic animals, emphasis on entomology, epidemiology, methods of diagnosis, control measures, and life histories. Techniques for host examination and preparation of material for study. Prereq: BIOS 150, 151, 152, 153 or consent of instructor. (Same as BIO 563.)

ENT 564 INSECT TAXONOMY. (3)
A study of the systematic basis for the collection, preparation, and identification of insect specimens. Prereq: Consent of instructor. (Same as BIO 564.)

ENT 565 INSECT BEHAVIOR. (3)
The principles of animal behavior will be stressed using insects as examples. Physiology, mechanisms, behavioral ecology and evolution of insect behavior will be covered. Prereq: One year of biology. (Same as BIO 565.)

ENT 574 ADVANCED APPLIED ENTOMOLOGY. (3)
The objective of this course is to present the student with advanced topics in applied entomology. Emphasis will be placed on field observations, and meta-analyses in ecological and behavioral research, and (2) the strengths, and limitations, of using model organisms to develop and test theory. Prereq: One year of undergraduate biology.
ENT 605 EMPIRICAL METHODS IN ECOLOGY (3) (Subtitle required) This course provides students with hands-on experiences in a diverse array of modern research methods used by ecologists and evolutionary biologists. The focus will be on modern research methods used for predicting, describing, and testing hypotheses. Special topics will be offered in the areas of community ecology, population genetics, and molecular evolution. Prerequisites: Consent of instructor. (Same as BIO/FOR 605.)

ENT 606 CONCEPTUAL METHODS IN ECOLOGY AND EVOLUTION. (3) (Subtitle required) This course provides students with hands-on experiences in a diverse array of conceptual methods used by ecologists and evolutionary biologists. The focus will be on modern research methods used for predicting, describing, and testing hypotheses. Special topics will be offered in the areas of community ecology, population genetics, and molecular evolution. Prerequisites: Consent of instructor. (Same as BIO/FOR 606.)

ENT 673 INSECT PHYSIOLOGY. (4) Study of the physiological attributes including development, digestion, reproduction, respiration, excretion, hormones and immu- nity. Opportunity to learn techniques used in insect physiology and molecular biology. Prerequisite: Consent of instructor. (Same as BIO 635.)

ENT 674 INSECT MOLECULAR BIOLOGY. (3) Principles of vertebrate and invertebrate molecular biology. Analysis of insect development, reproduction, behavior, immunity, transgenic insects and insecticide resistance at the molecular level. Hands-on experience with molecular biology techniques. Prerequisite: ENT/BIO 635 or consent of instructor. (Same as BIO 636.)

ENT 675 POPULATION AND COMMUNITY ECOLOGY. (2) This course covers the processes that determine population distribu- tions and dynamics and community structure for both plants and animals. Topics covered: population regulation, community diversity and stability, ecosystem, population interactions (competition, predation, mutualism), coevolution and temporal and spatial heterogene- ity on population and community patterns. Prerequisite: ENT 225 or BIO 340 or consent of instructor. (Same as BIO/FOR 607.)

ENT 676 IMMATURE INSECTS. (3) Study of immature stages of insects, the developmental stages that occur before emergence as adults. Topics covered: life histories, morphology, and behavior of immature stages. Prerequisite: BIOL 241 or consent of instructor. (Same as BIO 605.)

ENT 748 MASTER’S THESIS RESEARCH. (0-12) Half-time to full-time work on thesis. May be repeated to a maxi- mum of six semesters. Prerequisites: Full-time status and consent of the thesis advisor. (Same as BIO/FOR 605.)

ENT 767 DISSERTATION RESEARCH CREDIT. (2-3) Residence credit for dissertation research after the qualifying examination. Students may register for this course in up to two semesters. Prerequisites: Full-time status and consent of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended. Prerequisites: Full-time status.

ENT 768 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (1-6) May be repeated to a maximum of 12 hours. Prerequisites: Consent of instructor.

ENT 769 RESIDENCE CREDIT FOR THE DOCTOR’S DEGREE. (0-12) May be repeated to a maximum of six semesters. Prerequisites: Consent of instructor.

ENT 770 ENTOMOLOGICAL SEMINAR. (1) Discussion of current research problems in entomology. May be repeated to a maximum of six hours. Prerequisites: Consent of instructor.

ENT 839 SPECIAL TOPICS IN ENTOMOLOGY AND ACRYOLOGY. (2-3) Investigation of chosen insect problems, including original research. Discussion and presentation by students. May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.

ENT 850 RESEARCH IN ENTOMOLOGY AND ACRYOLOGY. (1-6) Independent study in entomology or acryology. May be repeated to a maximum of 12 hours. Prerequisites: Consent of instructor.

EPE 521 SPECIAL TOPICS SEMINAR IN EDUCATIONAL POLICY STUDIES AND EVALUATION. (Subtitle required) An introduction to the course is to introduce students to the development and the organization of teaching and learning in college. Prerequisites: EPE 501 or EPE 554 or equivalent course.

EPE 544 CULTURAL LITERACY AND TEACHING ABDROAD. (3) An introduction to theory and practice of intercultural communication, cross-cultural (especially international experience), and teaching with a global perspective, plus an opportunity for country-specific research. Required for those wishing to student teach overseas. Prerequisite: EDC 554. May be repeated to a maximum of three credits but no more than three may be earned under the same subtitle. Prerequisites: Consent of instructor.

EPE 555 COMPARATIVE EDUCATION. (3) Analytic and comparative study of contemporary education in selected countries. An orientation to historical development of education, the nature and role of educational institutions in American society, and as proposed purposes and policies for schools and other educational agencies. Prerequisites: Consent of instructor.

EPE 571 HISTORY OF EDUCATION. (3) A study of the historical foundations of American education. Prerequisites: Consent of instructor.

EPE 572 SPECIAL TOPICS SEMINAR IN EDUCATIONAL POLICY STUDIES AND EVALUATION. (Subtitle required) Examination of selected topics in educational policy studies and evaluation. May be repeated to a maximum of six credits but no more than three may be earned under the same subtitle. Prerequisites: Consent of instructor.

EPE 594 CULTURAL LITERACY AND TEACHING ABDROAD. (3) An introduction to theory and practice of intercultural communication, cross-cultural (especially international experience), and teaching with a global perspective, plus an opportunity for country-specific research. Required for those wishing to student teach overseas. Prerequisites: EDC 554. May be repeated to a maximum of three credits but no more than three may be earned under the same subtitle. Prerequisites: Consent of instructor.

EPE 602 SOCIAL POLICY ISSUES AND EDUCATION. (3) An examination of the basic issues of educational policy analysis. Empirical approaches will be used in the analysis of major questions of policy formulation in democratic politics. Prerequisites: Consent of instructor.

EPE 612 INTRODUCTION TO HIGHER EDUCATION. (3) This course is intended to give the student a broad overview of contemporary higher education. The course examines major trends, issues, and problems facing colleges and universities from a variety of perspectives, including historical, administrative, public policy, governance, and faculty. The primary objectives of the course are to assist the student in developing an understanding of 1) various components and operations of higher education and 2) the interaction of these components and operations.

EPE 619 SURVEY RESEARCH METHODS IN EDUCATION (Subtitle required) The purpose of this course is to familiarize participants with basic features of the design and implementation of surveys, and acquaint them with some particular techniques and underlying theory in disciplines that have traditionally used surveys most heavily. The course is open to master’s degree students who have a background in hypothesis and problem formulation, study design, sampling, question-naire design, interviewing techniques, pretesting, modes of data capture, data cleaning, management and analysis. The course involves lectures, readings, and discussions. Students are encouraged to bring materials related to their own research interests. The course will provide an overview of the theoretical and experimental litera- ture related to question and questionnaire design as well as focusing on practical issues in the design, critique, and interpretation of survey questions that are often not taught in formal courses. There will be exercises both in and outside of class to reinforce both theory and practical methodology. Prerequisites: EPE/EDP 557 or an equivalent course, one introductory statistics course.

EPE 620 TOPICS AND METHODS OF EVALUATION. (3) An examination of a subset of evaluation methods, topics, and perspectives on evaluation. The course is designed to provide a survey of both quantitative and qualitative methods. Prerequisites: Consent of instructor. Prerequisites for a basic course in statistical methods or an equivalent course.

EPE 621 ADVANCED TOPICS AND METHODS OF EVALUATION. (3) Examination of theories and methods of evaluating educational programs and policies. Prerequisites: Consent of instructor.

EPE 622 COLLEGE AND UNIVERSITY FACULTY. (3) This course considers college and university faculty in their role as researchers, teachers, and community/institutional servants. The class considers from various theoretical perspective which faculty are, what they do, and how they relate to the environments and cultures in which they work. Prerequisites: EPE 612 or consent of instructor.

EPE 629 ETHICS AND EDUCATIONAL DECISION MAKING. (3) Examination of ethical theories upon which educational evaluations are based and upon which they become the basis for educational policies. This course is concerned with classical and rule utilitarian- ism, Rawlsian social justice, behavioristic, critical, and hermeneutic theories of value. Prerequisite: EPE 600 or consent of instructor.

EPE 631 HIGHER EDUCATION. (3) This course focuses students on services (broadly defined) and those who work with college and university students outside of the aca- demic classroom. The course will examine the full range of student services but critically examines in theoretical bases and current practices with special attention paid to the relationship between students and other segments of campus. Prerequisites: EPE 612 or consent of instructor.
EPE 640 PHILOSOPHY OF EDUCATION. (3) The nature and purposes of education, the enhancement of the professional educator's competence in analyzing and evaluating educational policies and programs. Theoretical frameworks, philosophical methods, and critical approaches to education are examined. May be repeated to a maximum of six credits. Prereq: Twelve semester hours in education or permission of instructor.

EPE 641 PLANNING AND IMPLEMENTATION IN THE UNITED STATES. (3) A history of the growth and development of education in the United States through the seminal times to the present, including recent movements and trends.

EPE 652 HISTORY OF EDUCATIONAL THOUGHT. (3) Description and analysis of the core components and major approaches of educational theories in the history of Western culture. Emphasis upon the societal and cultural conditions in which the ideas emerged, and the relevance of these ideas to contemporary educational policy concerns.

EPE 653 HISTORY OF HIGHER EDUCATION. (3) An analysis of the historical development of higher education which will include selected topics in European culture and education and which will emphasize the development of the American college and university.

EPE 654 ADVANCED EDUCATION AND ANALYSIS IN EDUCATION. (3) A study of the research methodologies applicable in the several aspects of education. Emphasis is on the design of research and analysis of accumulated data. Prereq: EDP/EPE 557. (Same as EDP 665.)

EPE 661 SOCIOLOGY OF EDUCATION. (3) A study of schooling and education using basic analytic paradigms of sociology. Emphasis on schools as formal organizations and education as a social institution. Prereq: SOC 101 or equivalent. (Same as SOC 661.)

EPE 663 FIELD STUDIES IN EDUCATION POLICY STUDIES AND EVALUATION. (3) Field research in an educational setting. Questions of theory, method, and application examined. Students plan and implement a study under course supervision. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

EPE 665 EDUCATION and CULTURE. (3) An introduction to the functions of education in society and implications of anthropological approaches for teacher training.

EPE 667 EDUCATION AND GENDER. (3) An analysis of the social relationship between gender and education in U.S. society. The focus will be on the formation and enactment of gender within social and educational institutions. Using a variety of source materials and theories, we will address the following questions. How and what do educational institutions teach about gender? And how do females and males respond to these learning contexts? In what ways are social class, race and ethnicity important to engendering our lives? How does schooling contribute to societal changes in sex equity?

EPE 669 ORAL HISTORY. (3) This course will introduce students to the methods and techniques of oral history methodology and theory. It is designed for persons intending to use oral and life history interviews in historical or other qualitative research. The course emphasizes the role of the interviewer. Once the projects are initiated, projects are administered, interviews are conducted, and oral history interviews are analyzed. The course will consider the reliability of memory and utilization of the oral histories in public presentations. Readings in the course focus on the development of oral history as a discipline, and the implications for reliability of memory and utilization of the oral histories in public presentations. Prereq: Consent of instructor.

EPE 672 COLLEGE TEACHING AND LEARNING. (3) A study of all phases of instruction at the college level. The course will include methods and principles of teaching, utilization of materials in teaching, a consideration of the teaching-learning process as it occurs in the college classroom, and the evaluation of student progress. A comprehensive course for prospective college teachers.

EPE 674 THEORIES OF STUDENT DEVELOPMENT. (3) A study of individual and group behavior, relationship among students and personnel, and the total college program. Organization and administration, evaluation, and research of college student personnel.

EPE 680 ADMINISTRATION OF HIGHER EDUCATION. (3) Purposes and scope of higher education, organization, general administration, institutionalized inter-institutional cooperation, allocation of financial resources, state systems of higher education.

EPE 687 ECONOMICS OF HIGHER EDUCATION. (3) This course addresses issues of equity and efficiency by analyzing 1) how students, faculty and institutions are influenced by markets and the economic conditions in which they operate, 2) the impact of higher education on students and society, and 3) the financial management of institutions.

EPE 697 MULTIPLE USES IN EDUCATION AND EVALUATION. (3) Qualitative research methods with multiple uses of persons, programs, or products. Appropriate techniques for pretest-posttest designs, multiple outcome measures, reliability, timeliness and other situations where there are multiple measurements. Prereq: EPE 621 or at instructor's permission.

EPE 698 POLITICS OF HIGHER EDUCATION. (3) Survey and analysis of the political forces and processes which influence the direction of higher education policies, financing and programs at the federal, state, and institutional levels.

EPE 698 HISTORY OF THE UNIVERSITY: GOVERNANCE AND ITS LEGAL CONTEXT. (3) Identification and analysis of the legal and governance issues in medieval, reformation, American colonial universities and the implications for contemporary issues of governance, autonomy and academic freedom.

EPE 699 HIGHER EDUCATION AND THE LAW. (3) Case analysis regarding the university as a legal entity, private universities, the constitutionally autonomous university and other public universities in the United States. Prereq: EPE 681 or consent of instructor.

EPE 701 AFFIRMATIVE ACTION AND FEDERAL REGULATION OF HIGHER EDUCATION. (3) Affirmative action in the higher education context and current application; sexual harassment; special codes; higher education desegregation cases and issues; minority issues, including copyright, age discrimination, ADA and the Rehabilitation Acts. Prereq: EPE 682 or consent of instructor.

EPE 702 HIGHER EDUCATION AND ATHLETICS: A HISTORICAL ANALYSIS. (3) Historical analysis of the political, economic, and philosophical implications of athletics programs as part of the American college and university.

EPE 765 HIGHER EDUCATION: HIGHER EDUCATION AND PUBLIC AFFAIRS. (3) Analysis of higher education as a public institution. Topics include: state systems of higher education; state systems of higher education.
FAM 252 INTRODUCTION TO FAMILY SCIENCE. (3)
Introduction to the study of the family. Topics will include the important theoretical frameworks in family science, historical trends in marriage and family life, gender role theory, family life and the life cycle, kinship, communication, economics of family life, conflict, divorce, step-families and step-parenting, family strengths. Students will analyze contemporary family issues and take informed, written positions on those issues. FAM 252 is a University Studies Program course.

FAM 253 HUMAN SEXUALITY: DEVELOPMENT, BEHAVIOR, AND RESEARCH. (3)
Study of human sexuality, including the process of gender differentiation, sexual response patterns, sexual behavior and attitudes. Prereq: Sophomore standing or consent of instructor. FAM 253 is an AUP course.

FAM 254 DEVELOPMENTAL PSYCHOLOGY. (3)
An introduction to the principles of developmental psychology as seen in human and non-human, with the primary focus on infancy through adolescence. Emphasis is placed on theory and data relating to the developmental aspects of cognition, language and personality for working with individuals and families. FAM 254 is a University Studies Program course.

FAM 255 CHILD DEVELOPMENT. (3)
An overview of the aspects of development (physical, social, emotional, intellectual) in the social context for children prenatally through adolescence. Course will emphasize techniques of directed observation. Lecture, three hours; laboratory, one hour per week.

FAM 256 GUIDANCE STRATEGIES FOR WORKING WITH YOUNG CHILDREN. (3)
Examination of effective guidance strategies for use with young children in various educational and developmental settings. Focus on preparing students to work with families to modify behaviors for age level, ability, group and individual needs. Application and evaluation of guidance skills in laboratory experience. Lecture, two hours, laboratory, one hour per week. Prereq: PSY 223 (or FAM 254) or FAM 255. (Same as IEC 254.)

FAM 258 CHILD DEVELOPMENT AND FAMILY LIFE IN JAPAN AND CHINA. (3)
Study of the development of infancy through childhood, with special emphasis on the multiple forces which affect this stage of development. Lecture, six hours in social or behavioral science or consent of instructor.

FAM 301 INTRODUCTION TO FAMILY INTERVENTION: WORKING WITH INDIVIDUALS AND FAMILIES. (3)
Survey course to introduce students to the various skills, strategies and professional ethical standards used by family scientists in helping relationships with individuals and families. Students will be able to provide support for families and individuals. Prereq: Family Studies majors only, and FAM 251 and 252.

FAM 304 PERSONAL AND FAMILIAL RISK MANAGEMENT. (3)
An in-depth examination of the scientific basis of risk management with an emphasis on applications for individuals and families. Various methods of managing risk will be addressed through the principal components of risk management as a means for reducing risk associated with property, liability, income, health, and disability protections. Prereq: FAM 251.

FAM 357 CONTEMPORARY ADOLESCENCE. (3)
A survey of social, psychological, and behavioral behaviors with special emphasis on the multiple forces which affect this stage of development. Lecture, six hours in social or behavioral science or consent of instructor.

FAM 360 INTRODUCTION TO FAMILY INTERVENTION: WORKING WITH INDIVIDUALS AND FAMILIES. (3)
An introduction to the methodologies, instrumental techniques, and data analysis with an emphasis on a student’s ability to understand and critique research in human development and family relationships. Prereq: Family Studies majors only, FAM 252 and STA 200.

FAM 399 PRACTICUM IN FAMILY STUDIES. (3)
Supervised practicum in a community or educational setting. Emphasizes on observing individuals and families and developing competencies in providing services on either an individual, small or large group basis. Weekly discussion will provide analysis of problems related to the family and the adjustment of individuals. Lecture, one hour; laboratory, four hours per week. Prereq: Family Studies majors only and FAM 252, and 360.

FAM 401 NORMAL FAMILY DEVELOPMENT AND PROCESS. (3)
An examination of normal family development and processes from a family systems perspective. Emphasis is placed on the development, learning and development of family functioning, (b) emerging family forms, and (c) social and developmental contexts in which families live. Emphasis will be on examining how family development is influenced by the development and a framework from which to work with individuals and families. Prereq: Family Studies majors only, plus FAM 360 and SOC 101.

FAM 402 FAMILY ECONOMICS AND MANAGEMENT. (3)
Examination of family economics and management issues and analysis of the impact on the economic well-being of families. Prereq: FAM 383.

FAM 471 SYSTEMIC FAMILY DEVELOPMENT. (3)
An advanced exploration of normal family functioning from family systems theory and family development/life cycles perspectives. The diversity among normal families due to various contextual factors, including (age, culture, income, education, family factors) will be examined. Recent theory development and research pertaining to the study of families, as well as critiques of this work, will be reviewed. Prereq: Advanced undergraduate courses in family science.

FAM 603 THE U.S. FAMILY IN HISTORICAL PERSPECTIVE. (3)
A study of American family experience and values from its pre-industrial Anglo-European roots to the present. Using an interdisciplinary focus, the course will examine the shifting boundary between family and community and the interaction between domestic life and demographic, religious, and economic influences in American history. Prereq: FAM 335 or SOC 409 or equivalent, or consent of instructor. (Same as HIS 596.)

FAM 652 READINGS IN FAMILY THEORY AND RESEARCH. (3)
Survey course to introduce graduate work in the study of the family with a focus on family theory and research. Conceptual frameworks and theoretical approaches to the study of the family together with extensive reading of relevant supporting research are covered. Critical evaluation of macro theories and micro theories of the middle range and historical perspective on the development and evolution of family theory are emphasized. Prereq: Six hours in family-related social or behavioral sciences or consent of instructor.

FAM 654 LIFESPAN HUMAN DEVELOPMENT AND BEHAVIOR. (3)
A survey of human development across the life span of the individual from conception to death. Content includes changes in motor skills, social and emotional development, processing and storage of information and providing opportunities for students to practice skills during workshops (with permission of EDF 625.)

FAM 657 FAM SYSTEMS THEORY. (3)
An advanced exploration of normal family functioning from family systems theory, beginning with general systems theory and extending into the current applications to family studies. Emphasis is upon the development and evolution of family theory and its application to research pertaining to the family. Prereq: Six hours in family-related social or behavioral sciences or consent of instructor.

FAM 658 ADULT DEVELOPMENT. (3)
A survey of theory and research in adult development with particular emphasis on the role of families and implications for working with adolescents. Prereq: Six hours in social or behavioral science.

FAM 659 ADVANCED CHILD DEVELOPMENT. (3)
An advanced course in child development that brings together professionally important topics in child development. Particular attention to current theory and research in social, affective, cognitive and language domains, the cognitive, affective, and social influences of the childhood social-educational base; and issues concerning the application of child development knowledge to children and adolescents, including work in social or behavioral sciences or family studies, including one course in child or human development, or consent of the instructor.

FAM 660 AGING AND FAMILY VALUES. (3)
The study of dynamic of family interactions and issues when some family members are elderly. Emphasis is placed on perspectives from multiple generations and across various kin categories. (Same as GSN 660.)

FAM 663 ALLOCATION OF FAMILY RESOURCES. (3)
Study of the contributors to and the recipients of family resources. Emphasis on the meaningful contributions made by family resources through understanding money beliefs and attitudes concerning use of financial planning.

FAM 663 LIFE CYCLE. (3)
Demographic, sociocultural, economic, political, and professional issues related to personal challenges in the family life cycle will be examined and evaluated of family life education curriculum materials. Prereq: FAM 890, FAM 652 or FAM 654, or consent of instructor.
FAM 685 PROFESSIONAL ISSUES IN MARRIAGE AND FAMILY THERAPY. (3)
Description and analysis of major ethical issues in marriage and family therapy, including role of values in personal and professional decisions. (Same as AED 685.)
FAM 694 FAMILY INDEPENDENT STUDIES. (1-3)
Directed study for students with a background in family science and human development who wish to take advanced study in a particular area of interest. Prereq: Consent of instructor. May be repeated indefinitely.
FAM 703 SEMINAR IN FAMILY THEORY CONSTRUCTION. (3)
An advanced seminar in the definition and evaluation of family theory. Emphasis is placed on creative and deductive theory construction strategies are surveyed, evaluated and applied. Prereq: FAM 652. (Same as SOC 752.)
FAM 759 SPECIAL ADVANCED TOPICS IN FAMILY STUDIES. (1-3)
Intensive study of advanced topics and problems from family studies subject to student desires. Typical topics include housing and family development, early childhood education, and family resource management. Prereq: Consent of instructor. May be repeated to a maximum of six credits. (Same as AED/CLD 768.)
FAM 767 SEMINAR IN FAMILY THERAPY. (1-3)
Presentation and preparation of reports of current investigations in family dynamics and family therapy research. May be repeated indefinitely.
FAM 775 SEMINAR IN HUMAN DEVELOPMENT AND FAMILY THERAPY. (1-3)
Presentation and preparation of reports of current investigations in human development and family relations. May be repeated to a maximum of six credits. (Same as AED 775.)
FAM 776 PROSEMINAR IN MARRIAGE AND FAMILY THERAPY. (Subtitle required). (1-3)
Prerequisite: FAM 694. Independent study procedures in marriage and family therapy. May be repeated under different subtitles to a maximum of six credits. Preq: Consent of instructor.
FAM 778 ADVANCED PROBLEMS IN FAMILY ECONOMICS AND MANAGEMENT. (3)
Independent advanced work in family economics and management. May be repeated to a maximum of six credits. Preq: FAM 694. Graduate standing and consent of department chairperson.
FAM 785 SUPERVISED EXPERIENCE IN THE PRACTICE OF MARRIAGE AND FAMILY THERAPY. (1-6)
Supervised experience in the practice of marriage and family therapy. Students are required to spend one hour per week in lecture and one hour per week in individual supervision and three hours per week in group discussion of professional issues in conjunction with case management. A minimum of eight hours of client contact per week is expected. May be repeated to a maximum of 18 credits. Preq: Consent of supervising faculty committee.
FAM 790 ADVANCED METHODS IN FAMILY STUDIES RESEARCH. (3)
Advanced study of research methods used in family studies. Designed to prepare students for the development of their dissertation proposal. Includes study of advanced statistical methods including MANOVA, discriminant function analysis, and path analysis. Prereq: FAM 690 or equivalent.
FAM 795 SPECIAL ADVANCED TOPICS IN FAMILY SCIENCE AND HUMAN DEVELOPMENT. (1-3)
Advanced study of topics in family science and human development. Prereq: FAM 694. May be repeated to a maximum of 12 hours. (Same as AED/CLD 768.)
FAM 796 DISSERTATION RESEARCH. (0)
Preparation and presentation of reports of current investigations in family dynamics and family therapy research. May be repeated under different subtitles to a maximum of six credits. (Same as AED 796.)
FAM 797 DISSERTATION PROPOSAL. (3)
Preparation and presentation of reports of current investigations in family dynamics and family therapy research. May be repeated to a maximum of six credits. (Same as AED 797.)
FAM 798 MASTERS THESIS RESEARCH. (0)
Preparation and presentation of reports of current investigations in family dynamics and family therapy research. May be repeated to a maximum of six credits. (Same as AED 798.)
FAM 799 PHD DISSERTATION RESEARCH. (0)
Preparation and presentation of reports of current investigations in family dynamics and family therapy research. May be repeated to a maximum of nine credits. (Same as AED 799.)
FAM 800 DISSERTATION PREPROPOSAL. (3)
Preparation and presentation of reports of current investigations in family dynamics and family therapy research. May be repeated to a maximum of six credits. (Same as AED 800.)
FIN 300 CORPORATE FINANCE. (3)
An introduction to the basic principles, concepts, and analytical tools in financial management. Includes an examination of the sources and uses of funds, budgeting, present value concepts and their role in the investment financing and dividend decision of the corporate enterprise. Preq: ECO 201, ECO 202, GCC 202, ACC 202, MA 123, STA 291 or equivalent.
FAM 801 RESEARCH IN CAREER AND TECHNICAL EDUCATION. (3)
A critical study of selected problems in career and technical education. May be repeated to a maximum of nine credits. (Same as AED 801.)
FAM 802 ADVANCED WORK IN CAREER AND TECHNICAL EDUCATION. (3)
A critical study of selected problems in career and technical education. May be repeated to a maximum of nine credits. (Same as AED 802.)
FAM 810 PROFESSIONAL PRACTICE IN CAREER AND TECHNICAL EDUCATION. (3)
Preparation for teaching adult students in career and technical education including an introduction to the theories and methods used in marriage and family therapy, including an introduction to procedures used to assess, diagnose and treat marital and family dysfunctions. Preq: FAM 657 or consent of instructor.
FAM 815 TREATMENT MODALITIES IN MARRIAGE AND FAMILY THERAPY. (3)
The primary systemic modalities in marriage and family therapy are presented both in theory and in case study analysis. The presentation emphasizes the role of the problem, family history, identity of dysfunctional dynamics, goals, plan of treatment, and outcome/evaluation are emphasized in each modality. Procedures of assessment, diagnosis, and intervention specifically applicable to each modality are emphasized together with techniques common to both systemic and multisystems modalities. Research relevant to outcome/evaluation of each modality is also emphasized. Students are expected to observe marriage and family therapy and to serve as beginning level co-therapists with more advanced students under faculty supervision. Preq: FAM 657, 686 and admission to the graduate program in Family Studies.
FAM 816 FAMILY THERAPY INTERVENTION STRATEGIES. (3)
An examination of nonnormative, crisis events experienced by families and the clinical interventions. Both transitional and situational crisis events will be explored along with typical family dynamics. Emphasis will be placed on intervention strategies for clinical practice. Preq: Consent of instructor.
FAM 820 FAMILIAL AND DEVELOPMENTAL INTERVENTION STRATEGIES. (3)
The primary systemic modalities and theoretical models involved in research on the family. Emphasis is placed on research concerning interrelationships between the family and its environment, development within the family, and family dynamics. Preq: Consent of instructor.
FAM 830 FIELD EXPERIENCES IN FAMILY STUDIES. (1-3)
Field experiences designed to be related to family science for graduate students. Opportunities for developing competencies in planning and conducting programming within human development, family relations, early childhood education, and family resource management. Student will work under the supervision of a faculty and a family therapist supervisor. May be repeated to a maximum of six credits. Laboratory, three to nine hours per week. Open to: HEFED, HEFE, HEFD, and HEEC majors only with prior consent of instructor.
FAM 840 COUPLE AND SEX THERAPY. (3)
Study and application of established theories and techniques in couple therapy and in sex therapy. Emphasis on developing and demonstrating knowledge skills, issues, and treatment procedures in marriage and family therapy. Preq: Admission to the MFT masters program as a consent of instructor.
FAM 848 MASTERS THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six credits. Preq: Consent of instructor. May be repeated to a maximum of 36 semester hours.
FAM 849 DISSERTATION RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of 36 semester hours. Preq: Registration for two full-time semesters of FAM 769 residence credit following the successful completion of the qualifying exams. Preq: FAM 768, 769, and 848. May be repeated indefinitely.
FAM 850 TEACHING EXPERIENCE IN CAREER AND TECHNICAL EDUCATION. (1-6)
Supervised experience in teaching Career and Technical Education in grades 7-12. (Same as AED 850.)
FAM 851 THE ADMINISTRATION OF CAREER AND TECHNICAL EDUCATION. (3)
A course designed for administrators, high school principals, and other administrators. Purpose is to prepare administrators and supervisors for leadership in career and technical education. (Same as AED/EDA 894.)
FAM 852 SPECIAL PROBLEMS IN CAREER AND TECHNICAL EDUCATION. (3)
An independent work course for students interested in career and technical education. Students make individual investigations and report on special problems on the topic of career and technical education. Preq: FAM 766. (Same as AED 895.)
FAM 853 ADVANCED PROBLEMS IN MARRIAGE AND FAMILY THERAPY. (3)
Independent advanced work in marriage and family therapy. May be repeated to a maximum of six credits. Preq: Consent of instructor.
FAM 854 PROFESSIONAL PRACTICE IN CAREER AND TECHNICAL EDUCATION. (3)
Preparation for teaching adult students in career and technical education including an introduction to the theories and methods used in marriage and family therapy, including an introduction to procedures used to assess, diagnose and treat marital and family dysfunctions. Preq: FAM 657 or consent of instructor.
FAM 855 TREATMENT MODALITIES IN MARRIAGE AND FAMILY THERAPY. (3)
The primary systemic modalities in marriage and family therapy are presented both in theory and in case study analysis. The presentation emphasizes the role of the problem, family history, identity of dysfunctional dynamics, goals, plan of treatment, and outcome/evaluation are emphasized in each modality. Procedures of assessment, diagnosis, and intervention specifically applicable to each modality are emphasized together with techniques common to both systemic and multisystems modalities. Research relevant to outcome/evaluation of each modality is also emphasized. Students are expected to observe marriage and family therapy and to serve as beginning level co-therapists with more advanced students under faculty supervision. Preq: FAM 657, 686 and admission to the graduate program in Family Studies.
FAM 856 FAMILY THERAPY INTERVENTION STRATEGIES. (3)
The primary systemic modalities and theoretical models involved in research on the family. Emphasis is placed on research concerning interrelationships between the family and its environment, development within the family, and family dynamics. Emphasis will be placed on intervention strategies for clinical practice. Preq: Consent of instructor.
FAM 857 FIELD EXPERIENCES IN FAMILY STUDIES. (1-3)
Field experiences designed to be related to family science for graduate students. Opportunities for developing competencies in planning and conducting programming within human development, family relations, early childhood education, and family resource management. Student will work under the supervision of a faculty and a family therapist supervisor. May be repeated to a maximum of six credits. Laboratory, three to nine hours per week. Open to: HEFED, HEFE, HEFD, and HEEC majors only with prior consent of instructor.
FIN 395 INDIVIDUAL WORK IN FINANCE. (1-6) Students confer individually with the instructor. Written paper usually expected and filed in the instructor’s office. May be repeated a maximum of six credits. Prereq: GPA of 3.0 in major, approval of instructor and the college of business.

FIN 410 ANALYSIS OF FINANCIAL INFORMATION. Begins with a review of the informational inputs to financial decision-making, including financial statements and other economic data. Some emphasis will be placed on the use of “non-traditional” data across firms, and the application of popular analytic techniques. Studies evaluating the usefulness of financial data will also be reviewed. Prereq: ACC 300, ECO 391, and a grade of B or better in FIN 300.

FIN 423 INTERNATIONAL FINANCE. (3) The course is a survey of major trends in international trade, international monetary and trade theory, and the theory of exchange rate determination. Focus is on the management of short- and long-term international assets, with particular attention given to the direct investment decisions and on financing international operations. Prereq: A grade of C or better in FIN 410.

FIN 430 FINANCIAL MODELING. (3) The rapidly increasing computational power of personal computers in combination with a growing awareness of the data processing needs in the financial services industry has brought the advantage of fairly sophisticated financial models into the reach of a broad audience of financial analysts. This course is designed to convert the qualitative skill of quantitative modeling using computers from an advantage into a necessity. This course is designed to provide students with the ability to model financial instruments, strategies, and other financial derivatives for real world applications using advanced spreadsheet and visual- basic programming tools. Prereq: MA 213, or grade of B or better in FIN 430.

FIN 431 Derivative Asset Pricing. (3) This course covers advanced topics and computer programming concepts related to derivative assets. Prereq: A grade of C or better in FIN 430.

FIN 432 QUANTITATIVE PORTFOLIO MANAGEMENT. (3) This course covers the complex characteristics and analysis of derivative securities as well as the theory and practice of optimally combining securities into portfolios. Stressing the economic intuition behind the subject matter, this course presents advanced concepts of investment analysis and portfolio management. Prereq: A grade of C or better in FIN 430.

FIN 445 CAPITAL INVESTMENT AND DECISION MAKING. (3) A study of the processes by which firms decide to invest in new projects in capital equipment or technology and/or to pursue acquisitions of other firms. Optional strategies for financing such investments are also a focal point of the course. Emphasis will be placed on the use of financial concepts and financial tools in the decision making process. Prereq: FIN 300 with a grade of C or better in ACC 300 and ECO 391.

FIN 450 INVESTMENT ANALYSIS. (3) Analysis of corporation statements for investment purposes; the security market, market influences on security prices; interest of executive management in maintaining a strong balance sheet, which involves the evaluation of financial and accounting information. Students will use financial data. Prereq: FIN 300 and ACC 300.

FIN 452 OPTIONS AND FUTURES. (3) A study of the options and futures markets including institutional aspects, pricing, and regulation. Primary emphasis will be on the use and application of options and financial futures. Prereq: ECO 412; and a grade of C or better in FIN 450.

FIN 460 PRINCIPLES OF REAL ESTATE. (3) An overview of the basic principles of real estate investment in the private and public sectors. The course provides an introduction to real estate issues and a foundation for further study in the various specialized fields within the real estate industry. Prerequisites: Mathematical proficiency and completion of mathematics and science courses. Prereq: ACC 300, ECO 391, and a grade of C or better in FIN 450.

FIN 464 REAL ESTATE FINANCE. (3) This course is designed to provide an overview of real estate financing and the financial institutions which provide funds and the various types of financial instruments. Prereq: FIN 430 and consent of instructor.

FIN 470 FINANCIAL RISK MANAGEMENT. (3) Financial risk price in the form of unexpected movements in the foreign exchange, interest rates, and commodity prices and their impacts on a firm’s earnings, cash flows, value, and competitive position may be significant. Finance derivatives such as forwards, futures, options, and swaps and different hedging techniques, principles, and strategies will be studied. The course also includes an examination of the financial derivatives and the corporate risk management program. Lecture, discussion, readings, case study, and internet access approaches will be employed. Prereq: FIN 445, FIN 450.

FIN 475 VENTURE CAPITAL. (3) This is an overview of the financial management of a new venture. Its objective is to provide the student with an applied, realistic view of finance as it relates to new venture formation and development. To achieve this objective, a combination of class lecture, student discussion, and participative case studies will be utilized. Specific areas to be covered include: organizing and financing the new venture, financial forecasting, financial planning and valuation, new venture financing: financial planning for a new venture: long-term and short-term financial planning and control, financial statement analysis and cash management, an introduction to financial accounting and law fundamentals; the creation and calibration of value; venture capital valuation methods; professional venture capital; other financing alternatives: financial distress; turnaround opportunity; acquisition; and harvesting the business venture investment. Prereq: FIN 445 with a grade of “C” or better.

FIN 480 MONEY AND DEBT MARKETS. (3) A study of the institutional structure and theory of the money and capital markets, including the types of financial claims traded in such markets, the major buyers and sellers of these claims, the evolution of capital market theory, and the forces of supply and demand affecting the level and structure of interest rates. Prereq: ECO 412; and a grade of C or better in FIN 450.

FIN 490 SPECIAL TOPICS IN FINANCE (Subtitle required). (3) Readings, projects, lecture and discussion to illumi rate current topics of special interest or concern in finance. Prereq. May be repeated to a maximum of six credits. May not be repeated under the same title.
FOR 375 TAXONOMY OF FOREST VEGETATION. (4) Principles and techniques of intermediate cutting, natural and artificial regeneration, systems of reproduction, application of genetics and genetic evaluation, and a forest management experiment. Lab: two hours per week. Prereq: FOR 205 and FOR 219, or consent of instructor.

FOR 376 SILVICULTURAL PRACTICES. (4) Field study of the physical site characteristics and yield of forest stands and the application of cultural practices. Two week summer field course. Prereq: FOR 200 and FOR 300, grade of C or better required in FOR 205 and FOR 219.

FOR 377 FOREST SURVEYING. (3) An introductory course in surveying and mapping techniques as used in the identification and location of forest features. Prereq: FOR 200 and FOR 300, grade of C or better required in FOR 205 and FOR 219.

FOR 378 FOREST MENSURATION. (2) The use of field experience as an educational complement to classroom study. Topics covered: the application of surveying principles and techniques to determine tree and stand volumes and growth; timber cruising; development of volume and stand tables. Two week summer field course. Prereq: FOR 200 and FOR 300, grade of C or better required in FOR 205 and FOR 219.

FOR 379 HARVEST AND UTILIZATION OF WOOD. (2) Study and use of harvesting and milling equipment in the harvest and manufacture of wood and wood products. Two week summer field course. Prereq: FOR 360.

FOR 399 FIELD-BASED EDUCATION IN FORESTRY. (1-6) The use of field experience as an educational complement to classroom study. Open to students who can be required to a maximum of 12 credits which are to be used as electives. Prereq: Permission of instructor and department chairperson. A departmental learning agreement must be in place prior to registration.

FOR 402 FOREST ENTOMOLOGY. (3) The principles of forest entomology, including the detection, collection, identification, appraisal of damage, and control of forest insect pests. Lectures, two hours; laboratory, two hours. Prereq: One year of biology or consent of instructor. (Same as ENT 402.)

FOR 410 FOREST PATHOLOGY. (3) The principles of sustained yield timber management, organization of the forest area, management objectives, timber valuation, regula- tion of forest land management plans. Lectures, three hours; laboratory, two hours. Prereq: MA 162, FOR 201, and Summer Camp (FOR 375, 376, 377, 378, and 379), or consent of instructor. (Same as AEC 425. 425.)

FOR 430 FOREST WILDLIFE MANAGEMENT. (3) The principles and practices of wildlife ecology and management with emphasis on the forest environment. Prereq: FOR 205, FOR 219, FOR 340, or consent of instructor. (Same as AEC 661 or equivalent. (Same as AEC 662.)

FOR 440 FOREST RESOURCES FOR RECREATION. (3) Study of resource-oriented recreation in the forest. The recreational demands of the general public and the problems and policies related to forest land management policies and principles related thereto. Lecture, two hours; laboratory, two hours with occasional extended field trips. Prereq: Summer Camp (FOR 375, 376, 377, 378, and 379) or consent of instructor.

FOR 440C FOREST WATERSHED MANAGEMENT. (3) Prereq: FOR 205, FOR 219, and FOR 340. The study of flow regimes and their relation to water quality of surface waters and ground waters and to forest land management plans. Three hour lab and two hours field work per week. Prereq: FOR 205, FOR 219, and FOR 340, or consent of instructor. (Same as AEC 661 or equivalent) and one course in probability/statistics. (Same as AGBT 406.)

FOR 446 INTRODUCTION TO POPULATION GENETICS. (3) This course examines the population dynamics and equilibria of the most advanced populations. Emphasis will be on the role of sexual reproduction and the nonrandom mating patterns. Lecture, two hours; laboratory, two hours; field work, one hour. Prereq: FOR 205 and FOR 219 or consent of instructor. (Same as AGBT 446.)

FOR 448 INTEGRATED FOREST RECREATION MANAGEMENT. (5) This is the capstone course in the forestry curriculum. Students will be expected to demonstrate knowledge of forest management in a specific location in Kentucky. They will be required to collect data, determine management objectives, and develop action plans for managing the forest according to the desires of the owner and subject to realistic legal, economic, and social constraints. Students will be required to present their management plans at the end of the year to the advisory board of the Department of Forestry. Lecture, three hours; laboratory, four hours per week. Prereq: FOR 425, FOR 430, AND FOR 440, and consent of instructor. (Same as AGBT 448.)

FOR 599 INDEPENDENT WORK IN FORESTRY. (1-3) Study and independent work on selected problems related to allocation and application of human resources to various forest management research projects. May be repeated to a maximum of six credits. Any combination of FOR 599 and FOR 781 cannot exceed six credits. Prereq: Senior or graduate standing and consent of instructor.

FOR 601 RESEARCH METHODS IN FORESTRY. (3) A study of research methods, procedures, and techniques used in forestry. Emphasis will be placed on the analysis of data and methods of conducting research. Prereq. Graduate standing.

FOR 602 RENEWABLE NATURAL RESOURCES IN A GLOBAL PERSPECTIVE. (3) An advanced course that examines world and transboundary issues related to renewable natural resources. Students will attend a series of lectures, discuss assigned readings, and identify issues for further study. Student research papers related to those issues will be pre- sented and discussed in a seminar format. Prereq. Graduate standing.

FOR 605 EMPLOYMENT METHODS IN ENTOMOLOGY. (3) This course provides students with hands-on experience in a diverse array of modern research methods used by ecologists and evolutionary biologists, including techniques used in: molecular genetics, chemical ecology, behavioral studies, motion analyses, using high-speed video, image analyses for morphometrics and color, and field techniques for disease surveys. Systems. Lecture, one hour; laboratory, three hours per week. Prereq: BIO 325 or FOR 340 or ENT 665, or consent of instructor. (Same as BIO/ENT 605.)

FOR 606 METHODS IN ECOCOLOGY AND EVOLUTION. (3) This course provides students with hands-on experience in a diverse array of modern research methods used by ecologists and evolutionary biologists. The focus will be on optimization methods used for predicting animal and plant behaviors and life histories, and on methods for analyzing population trends and dynamics. Many mathematical techniques used will include graphical analyses, matrix algebra, computer simulations. The first part of the course will consist of collaborative modeling projects, in which small groups of students will work with the instructor to address an important contemporary problem. Students will report their results in a public talk and a project writeup. Prereq: One year of calculus and BIO 325 or FOR 340 or ENT 665, or consent of instructor. (Same as BIO/ENT 606.)

FOR 607 ADVANCED EVOLUTION. (2) This course covers advanced topics in evolution, concentrating on questions about the genetic and evolutionary processes. Phenomena occurring both within populations (e.g., selection, inheritance, population subdivision) and between populations (e.g., gene flow) are addressed. Special emphasis will be given to modern research approaches and techniques including quantitative genetics, measurement of selection, phylogenetic analyses of molecular data, speciation, and the evolution of biodiversity. Prereq: BIO 325 and one semester of calculus; or consent of instructor. (Same as BIO/ENT 608.)

FOR 608 BEHAVIORAL ECOLOGY. (3) The study of the behavior of animals. Topics addressed include: perception, learning, motivation, the nature of visual culture. Viewing of films outside of class required. Prereq:permission of instructor. Required of all graduate students. Can be repeated to a maximum of three credits.

FOR 781 SPECIAL PROBLEMS IN FORESTRY. (1-3) Half-credit for full-time work required to complete the course. May be repeated for a total of six credits; any combination of FOR 781 and FOR 791 cannot exceed six credits. Prereq: Consent of graduate adviser.

FOR 791 RESEARCH IN FORESTRY. (1-3) Involves original research in selected areas of interest in forestry. May be repeated for a total of six credits; any combination of FOR 781 and FOR 791 cannot exceed six credits. Prereq: Consent of graduate adviser.

FR French Language and Literature

FR 011 FRENCH FOR READING KNOWLEDGE. (2) This course is designed to meet the needs of upper division and graduate students who are preparing for the graduate reading examination in French. Prereq: One year of college French and placement test.

FR 101 ELEMENTARY FRENCH. (4) The study of basic French through grammar, reading and oral practice.


FR 103 FRENCH FILM. (3) A history of the French cinema from the early twentieth century to the present. Emphasis on the primary aesthetic movements of French cinema, expressing against the political and social context. Attention given to the formal elements specific to film, techniques of film analysis, and the nature of visual culture. Viewing of films outside of class required. Taught in English, with no knowledge of French necessary.

FR 106 ELEMENTARY FRENCH REVIEW. (3) A course in current-level French. Intended to prepare students with two or three units of high school French for FR 201 who, on the basis of the placement test, appear to lack sufficient skill in French for that course. Prereq.: Two years of high school French and the placement test.

FR 201 INTERMEDIATE FRENCH. (3) Reading, writing, and conversation and comprehension are the basic aims of this course, which is structured around contemporary texts. Prereq.: FR 102 or two years of high school French and placement test.

FR 202 INTERMEDIATE FRENCH. (3) A continuation of FR 201. Prereq.: FR 201 or three years of high school French and placement test.

FR 203 ELEMENTARY FRENCH CONVERSATION AND COMPOSITION. (3) This course will develop conversational skill and introduce writing. Prereq: Major requirement for the French major. Prereq.: FR 201.
FR 204 FRENCH CULTURE READING AND CONVERSATION. (3)
To enhance reading proficiency and comprehension through exposure to a variety of cultural texts and to apply reading skills to expression in written and oral form. Prerequisite: major requirement for the French major. Prereq: FR 202.

FR 261 MASTERPIECES OF FRENCH LITERATURE AND CULTURAL PROBLEMS. Lecture and discussion. (3)
A study of major literary texts (in English translation) from the seventeenth century to the present day. Special emphasis is given to the role of France and Francophone culture. No knowledge of French is required.

FR 263 AFRICAN AND CARIBBEAN LITERATURE AND CULTURAL PROBLEMS. Lecture and discussion. (3)
A study of major literary texts (in English translation) from the African and Caribbean in terms of historical, sociological, political, and literary events. No knowledge of French is required. (Same as AFR 263.)

FR 300 ORAL PRACTICE IN FRENCH (Subtitle required.)
Oral-aural practice in the spoken language. Emphasis in the expansion of communicative competence with an increase of ability to express oneself in French. No knowledge of French is required. (Same as AFR 300.)

FR 304 INTRODUCTION TO FRENCH LITERATURE I. (3)
A study of the development of language proficiency necessary to import-export business activities, banking, insurance, business regulation, etc., in the French-speaking world. Taught in French. Prereq: FR 204 or equivalent.

FR 305 INTRODUCTION TO FRENCH LITERATURE II. (3)
A study of a literary text from the 19th and 20th centuries with an emphasis on literary analysis and critical approaches. Lecture, discussion, and analysis of texts. Taught in French. Prereq: FR 204 or equivalent.

FR 306 INTERMEDIATE FRENCH COMPOSITION. (3)
Intermediate grammar review and theme writing. Vocabulary expansion and composition of short lyric and rhetorical paragraphs. Taught in French. Prereq: FR 204 or equivalent.

FR 310 FRENCH PHONOLOGY. (3)
Phonetics and phonemics, theory and practice. Advanced corrective pronunciation drill on an individual basis. Prereq: FR 204. Prereq: FR 204 or equivalent.

FR 312 FRENCH CONVERSATION I. (3)
Intensive practice in oral French, emphasizing idiomatic speech. Designed to maintain oral fluency in French. Prereq: FR 204 or equivalent.

FR 320 CULTURAL PROFILES OF FRANCE. (3)
This course explores significant figures, movements, trends, and issues in the cultural history of France in relation to the major political, economic, educational, and cultural institutions of France such as the monarchy, the Republic, the Church, the university, religious and theological issues, music, and the plastic arts. Taught in French. Prereq: FR 204.

FR 350 INTERMEDIATE FRENCH CONVERSATION II. (3)
This course continues the development of oral language proficiency necessary to import-export business activities, banking, insurance, business regulation, etc., in the French-speaking world. Taught in French. Prereq: FR 204 or equivalent.

FR 375 STUDY IN FRANCE OR QUEBEC. (3)
A study of French culture and culture of Canada, with special attention to the development of French cultural values. Emphasis on the role of the French in history, literature, and civilization. May include excursions to appropriate sites; reinforced by formal lectures and directed study. May be repeated to a maximum of six credits with different topics and departmenal approval. Prereq: FR 201 and consent of instructor.

FR 395 INDEPENDENT WORK IN FRENCH. (3)
Directed study in French literature and linguistics. May be repeated once. Prereq: AEN 340, FSC 306, Consent of instructor, or consent of the department, consent of instructor, and approval of the Director of Undergraduate Studies.

FR 406 ADVANCED FRENCH GRAMMAR AND COMPOSITION. (3)
The course aims to present vocabulary and grammatical structures necessary in written and long-developed compositions in correct formal French. Compositions will be discussed and analyzed in class. Taught in French. Prereq: FR 350.

FR 412 FRENCH CONVERSATION II. (3)
Practice of language skills at an advanced level. Emphasis on fluency and command of contemporary French speech. Preparatory for oral examination. Taught in French. Prereq: Must be French major, senior standing, or a faculty member. May be repeated to a maximum of nine credits under different subtitle.

FR 450 TOPICS IN FRENCH LITERATURE AND CULTURE IN TRANSLATION (Subtitle required.)
This course covers a depth in a particular movement, trend, or issue in the cultural history of France: Taught in French. May be repeated to a maximum of nine credits under different subtitle. Prereq: FR 304 and FR 305.

FR 457G TOPICS IN FRENCH LITERATURE AND CULTURE IN TRANSLATION (Subtitle required.)
This course covers a depth in a particular movement, trend, or issue in the cultural history of France: Taught in French. No knowledge of French is required. May be repeated to a maximum of nine credits under different subtitle.

PREREQUISITE:
Preparatory for oral examination. Taught in French. Prereq: Must be French major, senior standing, or a faculty member. May be repeated to a maximum of nine credits under different subtitle.

FR 495 SENIOR PAPER. (1)
Preparation of a research paper and oral presentation that requires students to synthesize the analytical skills acquired and concepts explored over four years. Prereq: Must be French major, senior standing, or a faculty member. May be repeated to a maximum of six credits under different subtitle.

FR 504 TOPICS IN FRENCH LITERATURE AND CULTURE (Subtitle required.)
Intensive practice in oral French, emphasizing idiomatic speech or an aspect of French culture. May be repeated to a maximum of nine credits under different subtitle.

FR 507 INTERNSHIP IN FRENCH. (3)
Study of French style with attention to written and oral expression. Introduction to stylistic theory and methodology. Prereq: FR 406 or graduate standing. Prereq: Consent of instructor.

FR 510 LINGUISTIC STRUCTURE OF MODERN FRENCH. (3)
An introduction to the phonological, syntactic and semantic categories and processes of contemporary French as studied in the light of current linguistic theory and practice. Prereq: FR 406 or graduate standing. Prereq: Consent of instructor.

FR 550 FRANCE TODAY. (3)
A contrast between contemporary France in today’s Europe and the United States. Special emphasis is given to the history of French Revolution and of the new institutions on French Society. Conducted in French. Prereq: FR 306 and consent of instructor.

FR 555 TEACHING OF FRENCH. (3)
The course is designed for teachers and prospective teachers of modern foreign languages, with emphasis on French. Modern method, theory and practice. Prereq: FR 306 or equivalent. Prereq: Consent of instructor.

FR 559 EXPERIMENTAL LEARNING IN ANIMAL SCIENCE/FOOD SCIENCE. (1-4)
An independent study in animal and food science under the supervision of a faculty member. May be repeated for a maximum of eight credits. Prereq: Consent of appropriate instructor. (Same as ASC 399.)

FSC 338 FOOD CHEMISTRY. (3)
Chemical properties of proteins, lipids, carbohydrates, pigments and food additives as they relate to food processing and food preservation. Lecture, three hours; laboratory, two hours. Prereq: BCH 311G or consent of instructor.

FSC 350 FOOD MICROBIOLOGY. (3)
Studies of procedures for the enumeration and identification of microorganisms in foods and foodstuffs. Emphasis is given to principles for controlling contamination and growth of microorganisms during production, processing, handling and distribution of food products. Lecture, three hours; laboratory, four hours. Prereq: FSC 297 and BOD 109 or equivalent.

FSC 355 FOOD ANALYSIS. (3)
This course is designed to introduce the student to the basic principles of analytical procedures used in the production and processing of foods and animal products. Prereq: FSC 350 or consent of instructor.

FSC 405 FOOD PROCESSING AND THERMAL PROCESSING. (4)
Prerequisite: FSC 434G or consent of instructor. (Same as ASC 446.)

FSC 536 ADVANCED FOOD TECHNOLOGY. (4)
Concepts of developing/improving new food products or food processing techniques; including consumer awareness, marketing, ingredient specifications, product formulation, stabilization of product, packaging to meet consumer needs, life style, packaging materials, products; quality and wholesomeness of our food supply. Prereq: BOD 109, BOD 430, FSC 530 or consent of instructor.

FSC 530 ADVANCED MEAT SCIENCE. (4)
Advanced meat science with special reference to the histological, chemical, physical and microbiological properties as they relate to muscle characteristics, age, feed qualifications, and carcass composition. Lecture, three hours; laboratory, two hours. Prereq: FSC 304, FSC 306 or equivalent; course in histology or biochemistry or consent of instructor. (Same as ASC 430.)

FSC 630 FOOD PACKAGING. (2)
Detailed description of food packaging materials, composition and resistance to chemical and physical abuse; theory of use and systems as well as criteria for selection of packaging systems for specific food processing techniques will be presented. Methods of production, blow mold, cast, extrusion; layering, laminating and co-extrusion; processing; and printing and sealing will be discussed. Prereq: FSC 336, FSC 538 or equivalent or consent of instructor.
This course illuminates the major moral considerations of public job search activities and the transition to the world of work. It will address the selection of appropriate career choices, the process of ethical decision making, and the use of technology to achieve personal goals. Students may not use more than six hours toward degree requirements on type of activity and requirements to be completed by students. Credit will be determined by Associate Dean of the College depending on the nature of the activity and the decision of the faculty to determine if the experience is appropriate for credit.

AGRICULTURE AND NATURAL RESOURCES. (1-6) GEN 302 INTERNATIONAL EXPERIENCE IN CHINA. Only students committed to go on trip to China will be enrolled. This course is designed to explore the agricultural, economic, and social systems of China and the role of Chinese culture in the development of new agricultural practices. Students will be required to investigate scientific literature germane to the issues covered and develop reviews, reports, and position papers. Preqre: Sophomore enrolled in College of Agriculture.

GEN 300 SPECIAL COURSE. (1-3) Interdisciplinary, topical or experimental courses offered at the instructor's discretion and related disciplines begin in GEN 100. Continues the development of skills in information gathering, critical analysis, and written and oral communication. Students will be required to investigate scientific literature germane to the issues covered and develop reviews, reports, and position papers. Preqre: Sophomore enrolled in College of Agriculture.

GEN 301 AN INTRODUCTION TO CHINESE CULTURE THROUGH AGRICULTURE. (3) This course is designed to introduce students to basic culture in China. Students will learn about Chinese agriculture, languages, customs, history, and regional science and engineering, which are the economic and the environment. The culmination of the course is a three-week trip to China. The course will be offered to all University students, subject to similar limits or prerequisites as set by the instructor. Hours are variable with each special course. Preqre: As specified by the instructor.

GEN 302 INTERNATIONAL EXPERIENCE IN AGRICULTURE AND NATURAL RESOURCES. (1-6) Credit for international experiences and travel abroad related to College of Agriculture degree programs. Students must work with faculty to get the experience to be appropriate for credit. Credit will be determined by Associate Dean of the College depending on type of activity and requirements to be completed by students. Students may not use more than six hours toward degree requirements.

GEN 301 JOB SEARCH SEMINAR. (1) This course will address the selection of appropriate career choices, job search activities and the transition to the world of work. It will emphasize the application of communication and team building skills in the area of career development. Preqre: Only. Preqre: Junior or senior standing in the College of Agriculture.

GEO 130 EARTH'S PHYSICAL ENVIRONMENT. (3) A study of our planet’s structure, its atmosphere, hydrosphere, climate and environment. Emphasis is placed on identifying interrelationships between atmospheric processes involving energy, pressure, and water, between the climate and environment, and between the natural processes of vegetative biomes, soils, and landscape formation and change. Fullfills elementary certification requirements in education, an H409 cross-disciplinary requirement.

GEO 152 REGIONAL GEOGRAPHY OF THE WORLD. (3) A geographical study of the world by regions with a focus on the natural physical environments and the emphasis on how regions are connected to each other. Also each region is affected by, and affects, economic development, population, agricultural production, and environmental change, will be examined. Fullfills elementary certification requirement for Education and USP discipline. Major themes revolve around regional diversity and regional development. Major topics examined include physical environmental components, regional agricultural, urban, and population geography. The course includes the regional analysis of the United States and Canada.

GEO 200 CONCEPTS AND METHODOLOGY IN GEOGRAPHY. (3) A study of the spatial distributions of significant human characteristics of the earth’s surface, including basic concepts of diffusion, population distribution and density, land-use activities, and human intervention and development. Major topics discussed include agricultural production, urbanization, and human relations, and gender relations, are Fullfills USP Cross-Cultural.

GEO 210 INTERNATIONAL EXPERIENCE IN AND ENVIRONMENTAL MANAGEMENT. (3) This course is designed to explore the agricultural, economic, and social systems of China and the role of Chinese culture in the development of new agricultural practices. Students will be required to investigate scientific literature germane to the issues covered and develop reviews, reports, and position papers. Preqre: Sophomore enrolled in College of Agriculture.

GEO 222 CITIES OF THE WORLD. (3) A study of the major aspects of the society, economy and patterns of urbanization. Emphasis is placed on the uniqueness and similarities of the urban environments of the world. Preqre: As specified by the instructor.

GEO 230 GEOGRAPHY OF THE UNITED STATES. (3) A systematic review of the physical, cultural, economic, and cultural diversity that distinguish U.S. and Canadian regions. Topics emphasized include environmental development, regional, and cultural diversity. Credit will be determined by Associate Dean of the College depending on the nature of the activity and the decision of the faculty to determine if the experience is appropriate for credit.


GEO 240 THE FORMER SOVIET UNION. (3) A study of the former Soviet Union’s position and influence in the global system. Major topics examined include physical geography, economic restructuring, and development. Preqre: GEO 172.


GEO 251 WEATHER AND CLIMATE. (3) A study of the atmospheric circulation systems, including major air masses, oceans, and major weather patterns. Preqre: GEO 152.

GEO 252 INTRODUCTION TO PLANNING. (3) An introduction to the history, purpose, and objectives of planning in the United States and world. Basic techniques of planning and decision making, including techniques such as polycentric, and global climate change. Preqre: GEO 152 or consent of instructor.

GEO 260 THIRD WORLD DEVELOPMENT. (3) The course focuses on the countries of the non-industrialized world and their economic, social, and political development. Preqre: GEO 152 or GEO 160 or GEO 172, or consent of instructor.

GEO 262 INTRODUCTION TO PHYSICAL GEOGRAPHY. (3) A course exploring the fundamental characteristics of earth’s physical environments, including climate, vegetation, soils, and landscape formation and change. Emphasis is placed on how regions are connected to each other. Also each region is affected by, and affects, economic development, population, agricultural production, and environmental change, will be examined. Fullfills elementary certification requirement for Education and USP discipline. Major themes revolve around regional diversity and regional development. Major topics examined include physical environmental components, regional agricultural, urban, and population geography. The course includes the regional analysis of the United States and Canada.

GEO 270 ENVIRONMENTAL ETHICS. (3) A course exploring the fundamental characteristics of earth’s non-industrialized world. Emphasis is placed on the uniqueness and similarities of the urban environments of the world. Preqre: As specified by the instructor.

GEO 285 INTRODUCTION TO PLANNING. (3) An introduction to the history, purpose, and objectives of planning in the United States and world. Basic techniques of planning and decision making, including techniques such as polycentric, and global climate change. Preqre: GEO 152 or consent of instructor.

GEO 290 DIGITAL GEOGRAPHY OF CITIES AND URBANIZATION. (3) A course exploring the fundamental characteristics of earth’s physical environments, including climate, vegetation, soils, and landscape formation and change. Emphasis is placed on how regions are connected to each other. Also each region is affected by, and affects, economic development, population, agricultural production, and environmental change, will be examined. Fullfills elementary certification requirement for Education and USP discipline. Major themes revolve around regional diversity and regional development. Major topics examined include physical environmental components, regional agricultural, urban, and population geography. The course includes the regional analysis of the United States and Canada.

GEO 300 GEOGRAPHIC INFORMATION SYSTEMS. (3) A course exploring the fundamental characteristics of earth’s physical environments, including climate, vegetation, soils, and landscape formation and change. Emphasis is placed on how regions are connected to each other. Also each region is affected by, and affects, economic development, population, agricultural production, and environmental change, will be examined. Fullfills elementary certification requirement for Education and USP discipline. Major themes revolve around regional diversity and regional development. Major topics examined include physical environmental components, regional agricultural, urban, and population geography. The course includes the regional analysis of the United States and Canada.

GEO 301 REGIONAL GEOGRAPHY OF THE WORLD. (3) A geographical study of the world by regions with a focus on the natural physical environments and the emphasis on how regions are connected to each other. Also each region is affected by, and affects, economic development, population, agricultural production, and environmental change, will be examined. Fullfills elementary certification requirement for Education and USP discipline. Major themes revolve around regional diversity and regional development. Major topics examined include physical environmental components, regional agricultural, urban, and population geography. The course includes the regional analysis of the United States and Canada.

GEO 302 INTERNATIONAL EXPERIENCE IN CHINA. Only students committed to go on trip to China will be enrolled. This course is designed to explore the agricultural, economic, and social systems of China and the role of Chinese culture in the development of new agricultural practices. Students will be required to investigate scientific literature germane to the issues covered and develop reviews, reports, and position papers. Preqre: Sophomore enrolled in College of Agriculture.

GEO 303 ETHNIC CHARACTERS, CHARACTERS AND ENVIRONMENT. (3) A study of the role of gender inequality in the global economy. Emphasis is placed on the role of gender inequality in the global economy.

GEO 304 DIGITAL GEOGRAPHIC INFORMATION SYSTEMS. (3) A course exploring the fundamental characteristics of earth’s physical environments, including climate, vegetation, soils, and landscape formation and change. Emphasis is placed on how regions are connected to each other. Also each region is affected by, and affects, economic development, population, agricultural production, and environmental change, will be examined. Fullfills elementary certification requirement for Education and USP discipline. Major themes revolve around regional diversity and regional development. Major topics examined include physical environmental components, regional agricultural, urban, and population geography. The course includes the regional analysis of the United States and Canada.

GEO 305 ELEMENTS OF CARTOGRAPHY. (3) Fundamental training in map drafting, compilation, symbolization, scales, projections, and map reproduction, including emphasis on the use of computer programs and design of maps and graphics as a medium for communication.

GEO 306 DIGITAL GEOGRAPHY OF THE UNITED STATES. (3) A course exploring the fundamental characteristics of earth’s physical environments, including climate, vegetation, soils, and landscape formation and change. Emphasis is placed on how regions are connected to each other. Also each region is affected by, and affects, economic development, population, agricultural production, and environmental change, will be examined. Fullfills elementary certification requirement for Education and USP discipline. Major themes revolve around regional diversity and regional development. Major topics examined include physical environmental components, regional agricultural, urban, and population geography. The course includes the regional analysis of the United States and Canada.

GEO 307 INTRODUCTION TO PHYSICAL GEOGRAPHY. (3) A course exploring the fundamental characteristics of earth’s physical environments, including climate, vegetation, soils, and landscape formation and change. Emphasis is placed on how regions are connected to each other. Also each region is affected by, and affects, economic development, population, agricultural production, and environmental change, will be examined. Fullfills elementary certification requirement for Education and USP discipline. Major themes revolve around regional diversity and regional development. Major topics examined include physical environmental components, regional agricultural, urban, and population geography. The course includes the regional analysis of the United States and Canada.

GEO 308 DIGITAL GEOGRAPHIC INFORMATION SYSTEMS. (3) A course exploring the fundamental characteristics of earth’s physical environments, including climate, vegetation, soils, and landscape formation and change. Emphasis is placed on how regions are connected to each other. Also each region is affected by, and affects, economic development, population, agricultural production, and environmental change, will be examined. Fullfills elementary certification requirement for Education and USP discipline. Major themes revolve around regional diversity and regional development. Major topics examined include physical environmental components, regional agricultural, urban, and population geography. The course includes the regional analysis of the United States and Canada.
GEO 400 INTERNSHIP IN GEOGRAPHY. (3) Provides experience in public and private sector positions, and is intended to introduce students to the skills and working environments of careers in geography. Students should consult with geography advisor about advanced registration for this class. Prereq: Junior or senior standing in the major.

GEO 490 AMERICAN LANDSCAPES. (3) A review of the evolution of the major and distinctive landscapes. Topics include: the history of settlement by Europeans, Africans, and others; evolving political allegiances; and the expansion of agrarian and industrial interests on the context of diverse physical environments. The role of political philosophy in landscape development and historic preservation will be highlighted. Prereq: GEO 172 or consent of instructor.

GEO 491 JAPANESE LANDSCAPES. (3) A study of the landscapes of Japan as vivid portrayal of Japanese culture, politics, and history. Analysis of major and secondary components of the Japanese landscape. Prereq: JPN 334 or GEO 334 or consent of instructor. (Same as JPN 491J.)

GEO 499 SENIOR RESEARCH SEMINAR. (3) Course is intended to provide a capstone experience in geographical research and provides students opportunity to identify an appropriate research topic in geography; develop and implementing appropriate research; and presenting research findings. May be repeated to a maximum of six hours. Prereq: GEO 305 and GEO 490 and consent of instructor.

GEO 500 PRACTICUM IN CARTOGRAPHY. (3) Experience credit in which a small number of advanced students work under the direct supervision of the cartographer, and in conjunction with other faculty members on departmental and contracted projects. May be repeated to a maximum of six hours. Prereq: GEO 305 and GEO 490 and consent of instructor.

GEO 506 INTRODUCTION TO COMPUTER CARTOGRAPHY. (3) A basic introduction to computer-assisted cartography. Emphasis on basic computer graphics literacy and automated techniques for spatial data acquisition, storage, processing, and output. Introduction to currently available computer-aided cartographic mapping programs. Prereq: GEO 305 or permission of instructor.

GEO 509 APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS. (3) An extension of GEO 409G, this course covers GIS in greater detail. Material common to GISs will be covered in lecture, and students will choose between becoming familiar with one or two systems. Actual data will be used and actual applications analyzed. Prereq: GEO 409G or consent of instructor.

GEO 512 GIS SYSTEMS & SCIENCE: ANALYTICAL ISSUES. (3) This course introduces advanced spatial statistical techniques under the rubric of spatial analysis. The course is organized as a seminar. Participants will first learn advanced spatial analysis techniques and apply them to examine a variety of case studies. Participants will learn statistical techniques including Monte Carlo simulations and kriging. A project that teams of students develop with the instructor will be required. Prereq: GEO 409G.

GEO 514 GIS SYSTEMS & SCIENCE: TECHNICAL ISSUES. (3) This course focuses on advanced spatial analysis techniques, computer science, information management in the practically oriented development of geographic information applications. The exercises focus on developing the meaning of robust GIS applications, culminating in a project, complemented by parallel lectures that introduce relevant aspects of geographic information processing. A student project is required in this course, and will include various aspects of developing geographic information applications ranging from algorithms to applications. Prereq: GEO 409G or consent of instructor.

GEO 516 GIS SYSTEMS & SCIENCE: MANAGEMENT ISSUES. (3) Examination of management issues related to geographic information systems and science that includes information systems design, cost/benefit analysis, elementary programming, and metadata production. Course will also examine organizational and legal aspects of developing GIS in public and private sectors. Issues including access, copyright, and metadata production will be discussed. Prereq: GEO 409G or consent of instructor.

GEO 530 BIOGEOGRAPHY AND CONSERVATION. (3) An introduction to the study of the distribution of species, exploring its origins, dynamics, and present trends. Examines the interplay among physical conditions, ecological interactions, evolutionary processes, and the biomes of the world's land masses as they have combined to affect the distribution of species, with particular attention to the application of biogeographic knowledge to conservation decisions. Prereq: Two semesters of introductory biology or physical geogra phy, or consent of the instructor. (Same as BIO 530.)

GEO 545 POPULATION DYNAMICS. (3) The study of human population distributions, densities, and growth patterns through analyses of the processes of fertility, mortality and mobility. Topical coverage includes the environmental, social, political, economic, and behavioral impacts on personal action and population change. Emphasis is placed on historic and contemporary populations. Prereq: GEO 172 or consent of instructor.
Course Descriptions

GER 301 GERMAN FOR READING KNOWLEDGE. (3) This course is designed to meet the needs of upper division and graduate students who are preparing for the graduate reading examination, who are preparing for amajor in their minor, or who require a Review of German grammar. GER 101 BASIC GERMAN. (4) Continuation of GER 101. Prereq: GER 101, or one year of high school German. GER 102 BASIC GERMAN. (4) Continuation of GER 102 GERMAN FOR READING KNOWLEDGE II. (3) An introductory course exploring the many ways in which art, architecture, literature and film have come to define and represent German-speaking cultures from the Germanic past to the Enlighten- ment, and culture, and with the reading skills necessary for them to view films with English subtitles to be viewed outside of regular class time. GER 312 INTRODUCTION TO GERMAN LITERATURE: POPULAR FORMS. (3) An introductory course that focuses on social, political, anthropological and aesthetic aspects of popular forms of German literature. Readings include fairy tales, folk songs and legends, children’s literature, detective stories, comics and other popular literary forms. Prereq: GER 202 or equivalent. GER 317 HISTORY OF GERMAN CULTURE. (3) An introduction to German culture with emphasis on the periods important to the development of modern German-speaking coun- tries. Readings in German literature, the arts, history, politics, and culture, with the reading skills necessary for them to view films with English subtitles to be viewed outside of regular class time. GER 361 GERMAN CINEMA. (3) A history of the cinema in the German-speaking world from its beginnings to the present, emphasizing the evolution of the produc- tion, distribution and reception of film in relation to changing political, social, economic, ideological and literary/artistic contexts. Some courses will focus exclusively on the production with class discussion of individual films. Viewing of films (silent or German dialogue with English subtitles) outside of class is required. Class taught in German. GER 363 GERMAN MYTHOLOGY. (3) An overview of the mythology of the Germanic peoples and their influence on the development of German culture. Prereq: MGT 270. GER 395 INDEPENDENT WORK IN GERMAN. (1-3) This course is designed for students who wish to do advanced work in German on any subject. May be repeated up to a maximum of six credit hours. Prereq: Major and a standing of 3.0 in the department.
GER 415 MAJOR GERMAN AUTHORS [Subdivision required. (3)]

The study of a single author or a group of authors in the social, political and cultural context of their day. Special concerns include the interrelationship of literature and culture in Germany and in the biographies of the author’s literature to literary tradition, and her or his historical as well as current relevance. May be repeated once to a maximum of six credits with a new author or group of authors. Taught in German. Prereq: GER 311 or 312 or equivalent.

GER 416 GENRES OF GERMAN LITERATURE. (3)

The study of major genres of German literature, together with representative examples and with inquiry into concepts of genre in general. May be repeated once to a maximum of six credits with a new author or group of authors. Taught in German. Prereq: Senior standing or consent of instructor.

GER 507 ADVANCED GERMAN COMPOSITION AND CONVERSATION. (3)

Further development of conversational skill and practice in writing stylistically appropriate German. Study of finer points of grammar, discussion of special topics and theme writing. Prereq: GER 308 or equivalent.

GER 520 SPECIAL TOPICS SEMINAR. (3)

Investigation of a topic pertinent to the advanced study of German language, literature, and culture. May be repeated once with new topic. Prereq: GER 415G, 416G, 420G or equivalent.

GER 522 HISTORY OF THE GERMAN LANGUAGE. (3)

A survey tracing the development of the German language from its earliest stages to the present, with introduction to basic concepts of historical linguistics. Prereq: GER 408 or equivalent.

GER 553 THE TEACHING OF GERMAN. (3)

The course is designed for teachers and prospective teachers of modern foreign languages, with emphasis on German. Modern methodology, principles of language pedagogy.

GER 612 STUDIES IN LITERARY THEORY. (3)

Course will explore such fundamental issues as the definition of literature, interpretation and evaluation, the reading process and literary life from the perspective of competing theoretical systems.

GER 615 STUDIES IN MAJOR AUTHORS. (3)

Explorations into one or several major figures in German literature. Reading of primary texts and pertinent scholarship together with an investigation of the authors’ literary, social, or political significance during contemporary or later periods. May be repeated to a maximum of 12 credits.

GER 616 STUDIES IN GENRE. (3)

One major genre or a group of related genres. Readings in genre theory and in the key texts from various periods; study of the development of forms, techniques, and ideas. May be repeated to a maximum of nine credits.

NOTE: The series of courses GER 620-630 provides a general framework for the systematic study of German literature in its cultural setting and delimits various issues to be investigated further in correspondence of specialization. The topics will be chosen to focus discussions and discussions focus on specific cultural and historical contexts of a given period and to the understanding of its institutional and biographical basis as well as its regional, social, national, and ideological aspects. Each major course also emphasizes critical methodology and tools of scholarship and identifies new directions for basic research.

GER 620 FUNDAMENTALS OF GEOLGY I. (3)

From Cambrian times to the late Middle Ages. Prereq: sophomore standing.

GER 624 STUDIES IN THE EARLY MODERN ERA. (3)

The Age of Renaissance, Reformation, and Baroque. Prereq: sophomore standing.

GER 625 STUDIES IN THE 18TH CENTURY. (3)

Enlightenment to Classicism.

GER 629 STUDIES IN THE 19TH CENTURY. (3)

Romanticism to Naturalism.

GER 630 STUDIES IN THE 20TH CENTURY. (3)

Turn-of-the-century Modernism to the present.

GER 660 MULTIDISCIPLINARY GERMAN STUDIES SEMINAR (Subtitle required. (3)

A team-taught, multidisciplinary exploration of a set of issues that effect cultural, literary, geographical, historical, political, philosophical or social organizations of Germany in its relation to surrounding geographic areas. The seminar will foster multidisciplinary perspectives in the study of Germany, its inhabitants, and cultural traditions, in its history and contemporary, and comparative contexts. Seminar readings in German, discussion in English. Seminar focus will vary each year to address single individual and contemporary debates. Prereq: consent of instructor.

GER 663 RESEARCH AND ISSUES IN TEACHING GERMAN. (3)

This course is worth 3 credits in the GER 405, 505 Program. Methods of Teaching German. The course will address a range of educational issues beyond the teaching of foreign language skills as well as student research with available methods in pedagogical matters. May be repeated to a maximum of four semesters. Coreq: GER 553.

NOTE: The course series GER 720-730 offers the opportunity for the more specialized and in-depth investigation of various topics encountered in the corresponding, but more broadly covered, period courses of the 620-630 series. With changes in topic, each course may be repeated a total of six times - thus enabling the student at the more advanced level to specialize within a particular period or periods.

GER 721 SPECIAL TOPICS IN LITERARY AND CULTURAL HISTORY. (3)

This course allows for the in-depth study of specific topics in German literary and cultural history cemented in the broad and long period courses of the 620-630 series. With changes in topic the course may be repeated to a maximum of nine times. Prereq: Permission of Director of Graduate Studies.

GER 748 MASTER’S THESIS RESEARCH. (0-12)

Half-time to full-time work on thesis. May be repeated to a maximum of six credits. Prereq: permission of Graduate Director of Studies.

SCANDINAVIAN (Offered as required)

GER 141 SWEDISH I. (3)

Introduction to Swedish with emphasis on grammar, pronunciation, reading and writing. Prereq: consent of instructor.

GER 142 SWEDISH II. (3)

Continuation of GER 141 with additional emphasis on conversation. Prereq: GER 141 or equivalent.

GER 610 OLD ICELANDIC. (3)

Rapid coverage of Old Icelandic, phonology and syntax of Old Icelandic, with some attention to linguistic affinities within the Indo-European and Germanic groups of languages. Prereq: Reading knowledge of German, consent of instructor.

GLY Geological Sciences

GLY 101 PHYSICAL GEOLOGY. (3)

A first course in the principles of physical geology, including study of minerals and rocks, volcanoes and earthquakes, plate tectonics and the landforms of Earth’s surface. Concurs: GLY 111.

GLY 102 HISTORICAL GEOLOGY. (3)

The history of Earth: its origin as part of the solar system, and the subsequent evolution of its atmosphere, continents, seas, and life as interpreted from the rock record. In addition to lecture subscriptions, examples are presented in a three-hour-field trip and several on-class exercises. Attention is given to the development of the basic principles used in interpretation. GLY 101 and 111.

GLY 110 ENDANGERED PLANET: AN INTRODUCTION TO ENVIRONMENTAL GEOLOGY. (3)

An introductory course that applies basic geological concepts to current environmental issues including the availability of water and soil resources, pollution causes, effects and solutions, and causes and prediction of environmental hazards including floods, landslides, subsidence, earthquakes and volcanoes.

GLY 111 LABORATORY FOR PHYSICAL GEOLOGY. (1)

Identification of minerals and rocks in hand specimens, interpretation of landscape features as shown on topographic maps, and an introduction to geologic maps. Laboratory, two hours per week. Concurs: GLY 102.

GLY 112 LABORATORY FOR HISTORICAL GEOLOGY. (1)

Interpretation of geological maps and cross-sections, and elementary study of important intrusive fossil groups. One three-hour field trip required. Prereq: consent of instructor.

GLY 115 INTRODUCTORY GEOLOGY LABORATORY. (3)

This course is designed to introduce students to basic geological techniques through hands-on laboratory exercises. Starting with basic earth materials, we emphasize observation and data collection to understand the formation of rocks and minerals, and put them in context of plate tectonic origins. Emphasis on application of this knowledge to society (use of geologic resources, geological hazards) is common throughout the course. Laboratory, two hours per week.

GLY 120 SUSTAINABLE PLANET: THE ROLE OF GEOLOGICAL RESOURCES. (3)

An introduction to the geologic and societal controls that govern the distribution and cost of using geologic resources: minerals, soils, and energy, and the environmental and societal consequences responsible for forming these resources, controls on their distribution, quality and abundance, economic factors that drive their recovery, and the legal/political arena in which we attempt to utilize them.

GLY 130 DINOSAURS AND DISASTERS. (3)

More than 65 million years ago, dinosaurs and their kin dominated the earth and relegated our mammalian ancestors to positions of

unimportance for nearly 155 million years. This course traces the fossil record of dinosaurs from early vertebrates to their eventual extinction and surveys the evolutionary, paleogeographic, environmental, and possible extraterrestrial causes for the rise to dominance and fall of these magnificent creatures. Along the way we also examine the interplay of plate tectonics with other organisms and the environment, as well as their indirect influence on mammals, particularly in the much later evolution of Homo sapiens. May be repeated to a maximum of six credits.

GLY 140 GENERAL PHYSICAL GEOLOGY. (4)

A first course in the principles of physical geology, including topics from crustal, asthenospheric, geochemistry, and atmospheric chemistry recommended. Lecture, three hours; laboratory, two hours. (Offered in Community College System only.)

GLY 140 GENERAL PHYSICAL GEOLOGY. (4)

A first course in historical geology, including a study of the development of earth’s fundamental features and a review of the history of life. Lecture, three hours; laboratory, two hours per week. Prereq: GLY 140 or 144. (Offered in Community College System only.)

GLY 150 EARTHQUAKES AND VOLCANOES. (3)

Physical interactions between the solid Earth, the atmosphere, and the hydrosphere, and the biosphere are investigated, providing the basis for understanding how Earth behaves as a self-regulating system that controls the global environment. The effect of human activity on modern Global Change will also be emphasized.

GLY 220 PRINCIPLES OF PHYSICAL GEOLOGY. (4)

How the Earth Works: an introductory course in the principles of physical geology, covering the physical, chemical and biological processes that combine to produce geological processes. Attention is focused on plate tectonics, earth surface processes, and properties and formation of earth materials. Lab exercises emphasize identification and interpretation of geologic materials and maps. History offered only during the summer session, this course involves daily field trips, laboratory and lecture activities, with at least 40 hours of field-related class time per week. Medical clearance required.

GLY 230 FUNDAMENTALS OF GEOLOGY I. (3)

Field and laboratory methods for identification and description of rocks and minerals with emphasis on sedimentary rocks and rock-forming minerals. Field study of geologic structures. Interpretation of geologic maps. Laboratory, three hours per week. Eight days in the field. Prereq: GER 520.

GLY 235 FUNDAMENTALS OF GEOLOGY II. (3)

Laboratory and field methods for identification and description of rocks and minerals with emphasis on igneous rocks and rock-forming minerals. Field study of geologic structures. Interpretation of geologic maps. Laboratory, four hours per week. Four days in the field. Prereq: GER 230.

GLY 295 GEOSCIENCE ORIENTATION. (1)

Survey of geoscience disciplines and post-baccalaureate career opportunities. Special emphasis placed on research approaches and means of dissemination of geoscience information. Guest speakers from industry, government, and academia will discuss career issues specific to geoscience including consideration of appropriate educational preparation for potential career paths. Pass/No Fail only. Prereq: GER 220 and sophomore status.
GLY 311 WORKSHOP IN ANALYTICAL METHODS FOR GEOSCIENCES. (1)

This course is designed for geology majors currently taking calculus. Students will work through geologically relevant analytical problems that utilize the methods and techniques they are learning in their formal calculus courses. Basic problem-solving skills and techniques will also be developed. The course will provide applied, real-life problem-solving skills and an opportunity to develop skills and understanding necessary for future success in the study of geology and related geological phenomena. May be repeated for a maximum of four credits. Concurrent registration in calculus (MA 113, 114, 213 or 214) is required. Prereq: Concurrent registration in calculus (MA 113, 114, 213 or 214). Special fee.

GLY 323 FIELD WORK IN REGIONAL GEOLOGY. (6)

Geologic mapping in the field for a six-week period. Description, measurement, and interpretation of a variety of rock structures, and analysis of geologic events in mountainous regions of the Rockies or Appalacians. Includes practice in writing geologic field reports at the end of each day's work. May be repeated for a maximum of six credits. May be repeated to a maximum of four credits. Concurrent registration in calculus (MA 113, 114, 213 or 214) is required. Special fee. Prereq: GLY 230 and GLY 258.

GLY 350 REGIONAL HISTORICAL GEOLOGY. (3)


GLY 360 MINERALOGY. (4)

The study of mineral structure and composition, and mineral classification. Laboratory topics will stress mineral and crystal chemical techniques. Laboratory work includes study of minerals via crystallography, X-ray diffraction, mineral chemical analysis, and optical petrographic techniques. Lecture: three hours; laboratory, three hours per week. Prereq: CHE 105 and GLY 220. Prereq or concur: GLY 230 and GLY 235.

GLY 395 SPECIAL PROBLEMS IN GEOLOGY. (1-3)

Individual work on a special problem in geology. Report required. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

GLY 399 WORK EXPERIENCE IN GEOLOGICAL SCIENCES. (1-4)

Professional-level, pre-planned learning experience in geological sciences in the work place under the supervision of a faculty member. Course work will be conducted and presented in a manner conforming to the student's special interest under the direction of an appropriate faculty member having proficiency in the area selected. May be repeated to a maximum of nine credits. Prereq: Geology major with graduate standing.

GLY 790 RESEARCH IN GEOLOGICAL SCIENCES. (0-6)

Research in geological sciences in the work place under the supervision of a faculty member having proficiency in the area selected. May be repeated to a maximum of twelve credits. Prereq: Approval of instructor and Director of Graduate Studies.

GRN Gerontology

GRN 513 GERIATRIC PHARMACY. (3)

A course designed to educate students in the basic knowledge of attitudes and skills required to meet the pharmaceutical needs of the elderly. Topics include discussions of physiologic, pathologic and psychologic changes in the elderly, how these changes influence patient compliance and the responses to drug and nondrug treatments, monitoring drug use in long-term care facilities, and special community services available to the elderly. Prereq: PHR 489, 852, 853, 854 and 856 or permission of instructor. (Same as PHR 833.)

GRN 585 AGING AND ENVIRONMENT. (3)

Explores the elderly person's changing experience of environment. Physical, psychological, and social and political changes are related to adjustment within urban and rural community environments, spe- cifically for the elderly. Prereq: GLY 461 or equivalent. Prereq: Graduate or advanced undergraduate standing and consent of instructor. (Same as FAM/GEO 585.)

GRN 600 A STUDY OF THE OLDER PERSON. (3)

This will be a didactic and experiential course designed to give the student an overview of the effects of the aging process on the individual person. Didactic lectures will focus on the psychological, social, and medical impact of aging. The course will consist of having the students interact with healthy elderly individuals from Donahue Scholars Program, the Sanders-Brown subject registry, and individuals suffering from diseases related to aging.

GRN 612 BIOLOGY OF AGING. (3)

This course introduces the application of epidemiologic methods to the study of aging. Topics include subcellular and cellular aging, genetics, immunology, and the influence of the aging process on the physical and psychological changes in the elderly. Topics include discussions of the aging process, physiologic, pathologic, and psychologic changes in the elderly. Prereq: FAM/GEO 385.或GRN 650. or equivalent.

GRN 615 SEMINAR IN EPILOGICAL MEDICINE (MEDICINE SCIENCE TEACHING). (2)

A two (2) credit seminar course in which issues related to the theory and practice of life science education are discussed in a Socratic manner. May be repeated to a maximum of three credits. Prereq: Current enrollment in a life science graduate program. (Same as PVY 615.)

GRN 618 EPIDEMIOLOGY OF AGING. (3)

This course introduces the application of epidemiologic methods to the study of the older person. Prereq: Enroll in a graduate degree and SPH 656/SPH 620 Intro to Epidemiology and GRN 650, or consent of instructor. (Same as SPH 618.)

GRN 650 EPIDEMIOLOGY OF AGING. (3)

The second core course of the Gerontology Ph.D. program is designed to provide students with an holistic examination of human aging. This course is designed to provide an overview of the breadth of research from the biomedical and the social and behavioral sciences, will provide the framework for this course. These themes include the influence of aging on health, aging in societies, and aging and health. Prereq: GRN 600. 

GRN 650 RESEARCH METHODS IN GERONTOLOGY. (3)

This course will provide students with the necessary background for the study of the aging and the aged and will critically assess special considerations involved in studying this population. Topics to be covered will include: data collection methods, research on aging (including medical informatics and clinical epidemiology sources); the use of animal models in aging research; research designs for the study of aging (reconnaissance period, cohort effects); longitudinal research; measurement tools for assessing the elderly [lnstrumental assessment, ADL, quality life indicators, satisfaction, etc.]; issues in interview of older people; qualitative methods in aging research; the ethics of research on aging and the aged. Prereq: STA 570 or equivalent.
GS The Graduate School

GS 600 SPECIAL TOPICAL GRADUATE COURSE. (1-3) An interdisciplinary course. May be repeated to a maximum of three enrollment times. Credit will not be assigned until the graduate student has been approved by the Dean of the Graduate School. A particular course can be offered more than twice under the number GS 600. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

GS 610 COLLEGE TEACHING. (1) This one-credit-hour seminar addresses teaching and learning issues in the classroom context. The seminar is designed for graduate students who want to prepare for future academic careers and enhance current teaching activities. The seminar will examine pedagogical issues in a general format, including examination of difference approaches to teaching. This course can serve to augment any departmental programs.

GS 620 TEACHING IN THE 21ST CENTURY. (1-2) This seminar, part of the Preparing Future Faculty program, is a rotating series of 1-2 credit-hour courses on various aspects of in-depth research of the exploration and practice surrounding a special topic in college teaching and learning. The seminars will involve both classroom activities and experience-based learning. For example, the course on first-year students will include a study of current research on the first-year experience, interviews with first-year students, and an experiential component where participants serve as mentors for first-year students. Participants will be asked to contribute a paper that integrates the theoretical and experiential aspects of the course and develops implications for teaching in their context areas. Credit will be repeated to a maximum of four credits.

GS 630 INSTRUCTIONAL TECHNOLOGY. (1) This seminar addresses pedagogically sound and effective applications of technology in college teaching and learning. Course goals include examining the impact of IT on learning outcomes, teaching strategies, and instructional assessments; developing proficiency in creating interactive Web sites, managing instructional Web sites, using Web-based tools, and using electronic tools to analyze data. Assignment is designed to help students understand the nature of the college classroom and the future of higher education.

GS 640 GRANT WRITING. (3) This course prepares graduate students to be on a state, federal, or private foundation or another large competitive grant. Students prepare and critique proposals. Prereq: GS 600.

GS 650 PREPARING FUTURE FACULTY. (1) Preparing Future Faculty is designed to introduce graduate students to the roles and responsibilities of the college teacher and to assist them in understanding their jobs. Preparing graduate students for effective teaching takes place. Students will focus on the academic expectations, institutional identities, and particular policies and procedures which characterize different types of institutions in higher education. Skills to help students apply for positions and achieve success in their appointed first-year positions. Lecture, two hours per week.

GS 660 MULTIDISCIPLINARY SENSING TECHNOLOGY SEMINAR. (1) A multi-disciplinary seminar in Sensors and Sensing Architectures. May be repeated to a maximum of four credits. Prereq. Graduate status.

GS 699 SPECIAL PROBLEMS IN COLLEGE TEACHING AND LEARNING. (1-3) This special problems course is designed to provide opportunities for graduate students and postdoctoral scholars pursuing a Certificate in College Teaching and Learning to explore specific topics related to college teaching that bridge or fall outside the domain of departmental efforts. Graduate students exploring faculty development as a career option, and students who currently hold full-time teaching positions in colleges or universities and who are interested in professional development or credentialing in College Teaching and Learning. An "Independent Graduate Work Initiation Form" must be filed with the Certificate Director prior to registration for this course. May be repeated to a maximum of six credits. Prereq. EPF 672, GS 610 or equivalent; consent of instructor.

GS 699 PRACTICUM IN COLLEGE TEACHING. (3) The Practicum is a mentored teaching experience that not only immerses the graduate student in teaching by also fosters reflection on the experience, provides structured feedback and plans for improvements, and gives the student the opportunity to develop portfolio documents. The practicum requires that the graduate student assume full responsibility for a course, under the guidance of a mentor teacher. Supervision for the practicum will be the responsibility of the Teaching and Learning Center, certificate faculty, and the student's academic advisor. The practicum is distinct from the mentored Teaching Assistant experiences because the student must have full responsibility for the course, including syllabus and materials development, teaching, and grading responsibilities. Credit will not be assigned until the graduate student has submitted a teaching portfolio that includes the practicum experience. Prereq. EPF 672, GS 610 (or equivalent); consent of instructor required.

GS 758 CAPSTONE RESIDENCY. (0) Completion of the Doctoral Plan B (non-thesis) student course may not be repeated. All course work toward the degree must be completed. Prereq: All course work toward the degree must be completed.
Course Descriptions

GWS 616 COLONIALISM/PAN-COLONIALISM AND GENDER. (3)
This course is designed to expose students to a range of theories and debates centering on or pertinent to women, gender, and sexuality in the context of colonialism. Here, the field is understood as in its widest and most interdisciplinary sense, inclusive of studies of Empire, the independent so-called ‘Third World’, and diasporas. Together, the readings from the classical texts in the field, current postcolonial readings on gender and sexuality in empire, represen- tations of nationalism, and feminist theory are integrated. Course credit may be used to help satisfy the international component of the Women’s Studies Graduate Certificate requirements.

GWS 650 FEMINIST THEORY. (3)
This is a course designed to give students an understanding of an array of feminist theories and the debates about gender differences, sexuality, and masculinity. The course is not designed to introduce students to contemporary feminist theory (such as intersections of race and gender, the body, identity, and health), but rather to provide an introduction to the history of feminist theory, its evolution, and its application to the study of gender and sexuality in society.

GWS 675 ADVANCED FEMINIST THEORY. (3)
An advanced topics course in feminist theory. Prereq: Permission of instructor.

GWS 690 GRADUATE RESEARCH IN GENDER AND WOMEN’S STUDIES. (1-3)
The purpose of this course is to provide graduate students the opportunity to engage in independent faculty-directed research in Women’s Studies. Prereg: Written agreement of a Women’s Studies Affiliated Faculty Member, who will direct the study.

GWS 692 SEXUALITY IN AFRICAN AMERICAN COMMUNITIES. (3)
This course is designed to address issues concerning contemporary African American communities in American and global contexts, from a gendered perspective.

HA 601 OVERVIEW OF THE HEALTH CARE DELIVERY SYSTEM. (3)
An introduction to the health care delivery system in the United States, including its composition, financing, the interrelationships of organizations that provide health care services, and the economic resources that influence how health care is delivered among various settings, health care terminology, and major problems and issues in the delivery of health services. Prereq: MHA/MAPA program status. (Same as PA 601.)

HA 602 ORGANIZATIONAL CHANGE AND STRATEGIC PLANNING. (3)
This course will provide an overview of the factors that may influence the future needs of the health care organization as contrasted to day-to-day operational management. Strategies for the design and implementation of organizational change including techniques of quality and process improvement will be addressed. The strategic planning components of needs assessment, demands analysis, generation of alternative, priority setting, and decision making are included. The course will examine health care trends such as restructuring, innovation in health care delivery and the development of new systems with special emphasis on the measurement and evaluation of improvements in health care delivery and outcomes. This course concludes with the development of an operational plan based on the results of the analysis and planning process. Prereq: MHA/MAPA program status and HA 601 and HA 621.

HA 637 HEALTH FINANCE. (3)
This course introduces the student to the economic principles of economics to the health care sector. The basic approach is to recognize the importance of scarcity and incentives, allowing for differences peculiar to health. Topics include health care cost, public and private health care financing, and the role of government are examined. Special topics include regulation and planning, benefit-cost analysis, and reform health plans. Prereq: The economics prerequisite can be met in three ways: (a) an undergraduate microeconomics principles course and an intermediate course in managerial economics; (b) an undergraduate microeconomics principles course and a graduate course in macroeconomics; or (c) an undergraduate microeconomics principles course and an intermediate microeconomics course. (Same as ECO 652/PA 652.)

HA 642 PUBLIC ORGANIZATION THEORY AND BEHAVIOR. (3)
This course will examine the interaction of both external and internal resources and constraints upon the administrative decision processes in a number of public organizational settings. The objective is an understanding of the practice of health care providers. Prereq: MHA/MAPA program status. (Same as PA 642.)

HA 650 MICRO POLICY ECONOMICS. (3)
Principles and practices of economic resource management in the governmental sector: tax and expenditure types, intergovernmental fiscal relations, and the role of the policy process. Prereq: MPA or MHA program status and HA 601 and HA 621. ECO 200 or equivalent.

HA 656 MANAGERIAL EPIDEMIOLOGY. (3)
A study of the tools necessary for planning and evaluating health programs: planning systems, needs assessment methodologies, data analysis, decision making, and the scientific method. Prereq: MPA/MHA program status and one of the following: MATH 110, MATH 111, MATH 118, or one course in statistics.

HA 660 DECISION MAKING IN HEALTH CARE ORGANIZATIONS. (3)
A course which examines the interaction of both external and internal resources and constraints upon the administrative decision processes in a number of public organizational settings. The objective is an understanding of the practice of health care providers. Prereq: MHA/MAPA program status. (Same as PA 660.)

HA 670 HEALTH POLICY DEVELOPMENT. (3)
An analysis of the development and implementation of health policy on a national, state, local and organizational level. The course will focus on the processes and factors underlying the development and enactment of policy development and the issues, values and political and commun- ity factors affecting policy development and program implementation. Prereq: MHA program status and one of the following: MATH 110, MATH 111, 610, 621, and 622. (Same as PA 670.)

HA 711 PRINCIPLES IN HEALTH ADMINISTRATION. (3)
This course will focus on the political, ideological, and philosophical beliefs that influence the direction of an academic and a workplace supervisor. Prereq. MPA program status.

HA 715 HEALTH POLICY AND AGING. (3)
This course will present an overview of health policy in the United States as it affects the older population. It will provide an overview of the health care system, the implementation of health services across the population and projected impact of the increase in the aging popula- tion on health care delivery. Various health policy proposals will be analyzed with a focus on their impact on the older population. Prereq: GRN 600 and GRN 620. (Same as GRN 715.)

HES 320 SURVEY OF AGRICULTURAL AND CONSUMER MEDIA. (3)
An exploration of the social, political, and economic factors that influence how agricultural producers and consumers receive infor- mation through the media. In addition, the course will analyze how the general mass media cover agricultural and consumer topics.
HIS 471 HONORS SEMINAR IN ANALYSIS OF MODERN HISTORY (3)
This course will fulfill qualified History majors with the faculty support that they will need to draft and complete an Honors thesis. **Course work required to the HIS 470 (Honors Seminar in Historical Methods). Eligible students will have to complete both courses in order to graduate with departmental honors. HIS 471 will enable the student to integrate the results of his/hers historical research with the learning how to skim and take notes with a particular research goal in mind; and to distinguish between the important and the irrelevant material; relating with clarity and precision; critiquing the work of other students; and making a persuasive oral presentation of one’s own research. Prereg: The student must have completed a departmental paper of at least 3.30 after 15 credit hours in history who have already completed HIS 470 (Honors Seminar in Historical Methods).

HIS 499 SENIOR SEMINAR FOR HISTORICAL MAJORS (Subtotal required). (3)
A seminar designed specifically for a senior seminar with a grade of C or better. Topics will vary, but a major is required. May be repeated to a maximum of six credits under different prerequisites. Prereg: Completion of at least 120 credit hours.

HIS 500 PRECLASSICAL AND CLASSICAL GREECE. (3)
A history of Greece from earliest times to the death of Alexander the Great.

HIS 501 FOURTH-CENTURY GREECE AND THE Hellenistic World. (3)
A history of Greece from the death of Alexander the Roman conquest of Egypt.

HIS 502 A HISTORY OF THE ROMAN REPUBLIC. (3)
A study of the rise and fall of the Roman Republic. Emphasis will be placed upon the territorial expansion of Rome and the effects of this expansion on republican institutions.

HIS 503 A HISTORY OF THE ROMAN EMPIRE. (3)
A history of the Roman Empire in its development of Imperial institutions, social and intellectual developments of the Greek influence on the political, social, and cultural history of late Imperial Rome, and the long term causes of the Roman Revolution of 1917.

HIS 535 RUSSIA IN THE 20TH CENTURY. (3)
This course will cover the social, political and cultural history of Russia in the late 20th century, with special emphasis on the causes of the Revolution, the formation of the Soviet Union and its decline.

HIS 556 THE HISTORY OF MODERN CULTURAL HISTORY OF RUSSIA TO 1800. (3)
A study of Russian culture to 1800 emphasizing Slavic paganism, Orthodox Christian culture, and modernity, and the impact of the West in the Seventeenth and Eighteenth Centuries.

HIS 573 INTELLECTUAL AND CULTURAL HISTORY OF RUSSIA FROM 1800 TO THE PRESENT. (3)
A study of Russia from 1800 to the present emphasizing whether Russia was as conservative as well as the revolutionary tradition, the Russian avant-garde, Stalinism, and the post-Stalin era.

HIS 540 HISTORY OF MODERN FRANCE TO 1815. (3)
The French history to 1815, including the development of French political, administrative, legal, social, economic, and cultural institutions and the contributions to modern France.

HIS 541 HISTORY OF MODERN FRANCE SINCE 1815. (3)
Continuation of HIS 540. (Same as CLA 541.)

HIS 542 GERMAN HISTORY, 1789-1918. (3)
This course examines the political, social, and cultural history of Germany from the end of the French Empire to the outbreak of World War I.

HIS 543 GERMAN HISTORY SINCE 1918. (3)
Continuation of HIS 542. (Same as CLA 543.)

HIS 546 THE BYZANTINE EMPIRE. (3)
A study of the history of the Byzantine Empire from the time of Constantine the Great to the capture of Constantinople by the Turks in 1453. Prereg: HIS 104 or 247.

HIS 548 HISTORY OF THE MIDDLE EAST: 1453-1820. (3)
Emphasis is on the history of the Middle East and Balkans from the conquest of Constantinople by the Ottomans (1453-1532), Safavid (1501-1724), Qajar (1795-1925) empires. This course focuses on the rise and disintegration of empires, theories of empire building and warfare, the transformation and demise. Stress is placed on the institutions - military, legal, bureaucratic, religious - of Islamic imperial governance. The origins of Balkan and Middle Eastern nationalism, including Jewish nationalism, the origins of the modern states and the role that Britain played in shaping the modern Middle East. The empire played in their creation as well as in their demise during WWI is stressed.

HIS 549 HISTORY OF THE MIDDLE EAST: 1920 TO THE PRESENT. (3)
Continuation of HIS 548. Emphasis is on the politics of Middle Eastern nationalism, Pan-Arabism and its demise, the Arab-Israeli conflict, the impact of two world wars, the evolution of the Middle East, and the development of the Islamic movement since 1967.

HIS 550 STUDIES IN MID-EAST HISTORY AND POLITICS: (Subtotal required). (3)
Selected topics on the history of the Middle East and its politics. The specific topics will be chosen and listed in the course schedule book and the department’s website.

HIS 551 FOREIGN POLICIES OF MIDDLE EAST STATES. (3)
This course focuses on the foreign policies of Turkey, Iran, Iraq, and the major states of the Near East: Egypt, Israel, Syria and Saudi Arabia. It will also examine the foreign policies of the smaller Arab countries such as Lebanon, Jordan, and the Gulf states. Emphasis will be placed on the major trends of the foreign policies of these countries since WWII.

HIS 552 TUDOR-STUART BRITAIN, 1485-1714. (3)
An analysis of political, religious, cultural, and economic changes in Britain during the reign of the Tudor kings and queens, a period when Britain became increasingly prominent in world affairs.

HIS 553 EIGHTEENTH CENTURY BRITAIN. (3)
An analysis of English social and economic changes in a period when the country was transformed by the Industrial Revolution and challenged by the French Revolution.

HIS 554 SOCIAL HISTORY SINCE 1800. (3)
A detailed study of Britain’s social, political, diplomatic and industrial development in the 19th century.

HIS 555 BRITISH HISTORY SINCE 1901. (3)
A detailed study of Britain’s political, social, economic, and military development with special consideration of Britain in World War I and World War II, and her position in the world after 1945.

HIS 556 THE BRITISH EMPIRE, 1580-1800. (3)
This course will trace the imperial theme, and the gradual decline and transformation of Britain’s Empire from the 15th century to the present; it will examine colonization and the blending and clash of cultures, the effect of technology and western ideas on the subject peoples, and their impact on western civilization. Prereg: Prior experience in HIS 105 strongly recommended.

HIS 557 THE BRITISH EMPIRE, 1800-1900. (3)
A survey of the British Empire from 1800 to 1900. This course will trace the imperial theme, and the gradual decline and transformation of Britain’s Empire from the 15th century to the present; it will examine colonization and the blending and clash of cultures, the effect of technology and western ideas on the subject peoples, and their impact on western civilization. Prereg: Prior experience in HIS 105 strongly recommended.

HIS 558 THE HISTORY OF WOMEN IN LATIN AMERICA. (3)
This course will focus on the history of women in Latin America from the pre-Columbian period to the present. The emphasis will be mainly on the late nineteenth and twentieth centuries in order to understand the situation of women in Latin America today. Particular attention will be paid to the effects of this expansion on political, social, economic and cultural institutions.

HIS 559 AMERICAN CONSTITUTIONAL HISTORY. (3)
A study of the constitutional developments in the United States from the colonial period to current times, with emphasis on the Supreme Court.

HIS 560 DIPLOMACY AND FOREIGN POLICY OF THE UNITED STATES TO 1919. (3)
A survey designed to acquaint the student with the principles of American foreign policy and its historical evolution. Prereg: HIS 108 or equivalent.

HIS 575 THE DIPLOMACY AND FOREIGN POLICY OF THE UNITED STATES SINCE 1919. (3)
A continuation of HIS 574. Foreign policy after the United States became a world power. Prereg: HIS 109 or equivalent.

HIS 576 FRONTIER AMERICAN HISTORY: 1763-1865. (3)
A study of the ways in which America’s people shaped and were transformed by the frontier; how they wrestled with the problems of nationalism, democracy, war, and sovereignty; and how the idealism and promise were fulfilled and betrayed, from the first settlers to the driving of the Golden Spike.

HIS 577 JAPAN: 1868-1990 PRESENT. (3)
A survey of the many Westerners, as well as men, Native Americans, Chinese, and Hispanics as well as whites, southerners as well as northerners, priests and bandits and Jews, and of the many Wests, wild and not-so-wild, in the fictional frontier west from the prairie homesteaders to the Sagebrush Rebellion; and how they made, inhabited, and were imposed upon the frontier heritage.

HIS 578 DOMINICAN HISTORY: 1865-1998. (3)
A study of the colonial beginnings and expansion of southern Latin, economics, and society. The growth of slavery, staple agriculture, and sectional politics will constitute the major interest. Prereg: HIS 108.

HIS 579 HISTORY OF THE NEW SOUTH. (3)
The course will focus on the effects of the Civil War and the Reconstruction on the South, and its economic development, and its political and social life.

HIS 580 HISТОRY OF APPALACHIA. (3)
A survey of the economic, social, and cultural history of Appalachia from the colonial period to the present with emphasis on the interconnection of this social state region with the broader forces of social change within modern America. Prereg: HIS 108, 109 or consent of instructor.

HIS 581 U.S. URBAN HISTORY SINCE 1865. (3)
A survey of the economic, social, and cultural history of Appalachia from the colonial period to the present with emphasis on the interconnection of this social state region with the broader forces of social change within modern America. Prereg: HIS 108, 109 or consent of instructor.

HIS 583 MIDDLE EASTERN AND AMERICAN HISTORY, 1815 TO THE PRESENT. (3)
A survey of the social, economic, and cultural history of the United States from the colonial period to the present with emphasis on the urbanization of cities in the development of the United States, the processes by which cities grew and the effects of urbanization on city dwellers.

HIS 584 HEALTH AND DISEASE IN THE U.S. (3)
Examines the emergence of modern medicine and the allied health professions, from colonial times to the present. Emphasis will be placed on the social, institutional, and scientific contexts of medical thought, education, and practice. It also explores how social and professional thought and action shape the meaning of health and disease.
A study of the political, social, and cultural forces occurring in China, Japan, and Korea in the aftermath of World War II. Important political and institutional developments and their relations to pre- and post-war Japan will be emphasized.

HIS 595 STUDIES IN HISTORY

Professors will offer lecture and discussion courses in areas in which they have special teaching interest. May be repeated to a total of 12 credits. Prereq: To be denoted by the instructor.

HIS 596 THE U.S. FAMILY IN HISTORICAL PERSPECTIVE

A study of American family experience and values from its pre­industrial Anglo-European roots to the present. Using an interdisciplinary focus, the course will examine the shifting boundary between family and community and the interaction between domestic life and demographic, religious, and economic influences in American history. Prereq: AS 153 154 409 or equivalent, or consent of instructor. (Same as FAM 509.)

HIS 598 CHINA IN REVOLUTION, 1895-1976

After a brief survey of the pre-modern Chinese history, this course explores the ideas which inspired the people who organized China’s Nationalist and Communist parties and examines the social conditions which influenced the revolution of 1911. The course also covers the attempts of some Chinese Communists to “continue the Revolution” after 1949.

HIS 606 HISTORICAL CRITICISM

Required of every entering graduate student in history. For history graduate students only.

HIS 613 READING IN EARLY MODERN EUROPE, 1540-1648

This course is designed to give graduate students a grounding in the historiography of Europe from 1540 to 1648. Students should expect to familiarize themselves in the recent trends in political, social, cultural, religious, economic, and intellectual history of the period.

HIS 614 READING IN EARLY MODERN EUROPE, 1648-1815

This course is designed to give graduate students a grounding in the history of Europe from the Thirty Years War to the Era of The French Revolution, with a focus on political, cultural, and intellectual history.

HIS 623 READING IN 19TH CENTURY EUROPEAN HISTORY

Intensive survey of the literature in the political, social, and/or cultural history of nineteenth-century Europe. May be repeated to a maximum of six credits when topical coverage is sufficiently different from one semester to another. Prereq: Graduate status.

HIS 624 READING IN EUROPEAN HISTORY OF THE TWENTIETH CENTURY

A critical survey of problems and literature in the political, social, and cultural history of twentieth-century Europe. May be repeated to a maximum of six credits when topical coverage is sufficiently different from one semester to another. Prereq: An undergraduate course in European history.

HIS 625 BRITAIN, 1688-1815

A general-level introduction to the political and social history of Britain from the Glorious Revolution to the Napoleonic Wars. Emphasis will be on the political, social, and cultural changes brought by economic development, the rise of the middle classes, the influence of the French Revolution, and the period of the Regency. May be repeated to a maximum of six credits when topical coverage is sufficiently different from one semester to another. Prereq: Graduate status.

HIS 626 BRITAIN, 1792-1914

This course will provide graduate students with a detailed overview of the history of Britain from 1792 to 1914. The course will focus on such issues as the impact of the Industrial Revolution, the formation of the British Empire, the growth of women’s rights, the development of political consciousness, and the politics of class and gender. Prereq: Permission of instructor.

HIS 627 THE BRITISH EMPIRE, 1763-1914

This course will provide graduate students with a detailed overview of several broad themes pertaining to the history of the British Empire. 1763-1914: A focus on imperialism and the application of imperial awareness within Britain itself, c. 1800-1914. Prereq: Permission of the instructor.

HIS 628 COLLOQUIUM ON MODERN EUROPEAN HISTORY

This course will provide an overview of the major themes and events that have shaped Modern European History from the late 18th century to the present. We will analyze the various ways in which particular historical topics have been interpreted (and reinterpreted) over time, as well as different methodologies, underlying assumptions, and use of evidence. The major goal of the course, however, is to introduce graduate students to significant works and historical debates in Modern European History.
HMT 488 ADVANCED FOOD SERVICE AND TOURISM MAJORS only.
(3) Planned managerial work experience of at least 400 hours in a hospitality or tourism organization. The experience is coordinated by the field experience manager and the on-site supervisor. Written progress reports are submitted by the student and the on-site supervisor. A daily log is maintained by the student. Prereq: 400 hours of verified food service or tourism work experience in the last two years. HMT 120, 208, 210, 270 with a grade of C or above.

HON 101 THE ANCIENT WORLD
(3) From Greek and Roman antiquity to the early Christian centuries: an interdisciplinary course in intellectual history. Readings vary at the discretion of the faculty. Prereq: Membership in the Honors Program.

HON 105 THE MEDIEVAL AND EARLY MODERN WORLD
(3) From the Middle Ages through the Reformation: an interdisciplinary course in intellectual history. Readings vary at the discretion of the faculty. Written assignments required. Prereq: Membership in the Honors Program.

HON 111 WORLD FOOD ISSUES I: SEEDS AND HARVESTS
(3) In this foundational course you will start from the human past, explore the role of the Agricultural Revolution, 10,000 years ago, and address the impacts of historical influences on current food issues. Prereq: Admission to the Honors Program.

HON 112 HISTORY OF EMERGING TECHNOLOGIES IMPACT ON SOCIETY: A TIME TRAVEL (3) The objective of the course is to explore how some of the inventions such as steam engines, internal combustion, and atomic reactions influenced society during the times as well as centuries later. We will discuss the impacts of the expectations of a society and the overall mindset prior and after a given technology was introduced. Finally, we will have a speculative study of nanotechnology to explore its potential future impact on engineering, and the services industry. Prereq: Membership in the Nanotechnology Track of the Honors Program.

HON 125 THE SCIENCE OF ART AND SMALL: INTRODUCTION TO NANOTECHNOLOGY
(3) Nanotechnology is a highly interdisciplinary emerging field involving scientists from physics, chemistry, biology, engineer, information technology, metrology, and other fields. This course will define the terminology, promote the use of simple analogs of nanotechnology by exploring the development of the National Nanotechnology Initiative (NNI) and related enterprises. Prereq: Membership in the Nanotechnology Track of the Honors Program (HON 121) or consent of instructor.

HON 131 SPACE, PLACE, AND CULTURE: ARMS AND THE MAN
(3) A multidisciplinary introduction to the concepts of space and place in culture. Through readings in social and critical theory, as well as analysis of movies, film, music, architecture, urban design, and other forms of cultural expression, students explore how places develop meaning for those who inhabit them. Special attention is given to the issue of belonging, the geographies of gender and race, and the problem of nationalism in the era of globalization, the fate of the nation, and the spatial politics of resistance. Prereq: Membership in the Honors Program. Place, Plant, and Culture track of the Honors Program.

HON 135 SPACE, PLACE, AND CULTURE: TOPICAL SEMINAR II (Subsidiary required)
(3) This course provides an in-depth interdisciplinary study of a specialized topic within the broader area of space, place, and culture. Course topics, which change from year to year, explore the cultural significance of the Middle East, Western Europe, and the Americas by asking how cultural identity is grounded in and shaped by encounters with the geographic place. Prereq: HON 131, HON 135 and membership in the Space, Place, and Culture track of the Honors Program.

HON 145 THE SOCIAL CONSTRUCTION OF HUMAN IDENTITY
(3) This course is designed to give students a multidisciplinary perspectve on the social construction of the self and others. Specifically, it seeks to introduce students to representative disciplines, guiding themes and salient theories, and paradigmatic works of historians and researchers within the broad domain of the social sciences. This interdisciplinary Honors course will provide an intellectual base from which to begin the study of the social sciences. Topics covered include the self and others, and they are examined from various Social science disciplines such as Anthropology, Communications, Education, Family Studies, Geography, History, Political Science, Psychology, Social Work, and Sociology. Prereq: HON 141 and membership in the Social Science track of the Honors Program.

HON 147 THE EARLY MODERN WORLD
(3) From the development of the modern scientific method through mid- 19th century industrialism: an interdisciplinary course in intellectual history. Readings vary at the discretion of the faculty. Prereq: Membership in the Honors Program.

HON 205 THE CONTEMPORARY WORLD
(3) The contemporary world: an interdisciplinary course in intellectual history. Readings vary at the discretion of the faculty. Prereq: Membership in the Honors Program.

HON 212 WORLD FOOD ISSUES II: LIVING WITH LIMITS
(3) This course provides an in-depth multidisciplinary study of a specialized topic within the broader areas of space, place, and culture. Course topics, which change from year to year, explore cultures of the Middle East, Western Europe, and the Americas by asking how cultural identity is grounded in and shaped by encounters with the geographic place. Prereq: HON 131, HON 135 and membership in the Space, Place, and Culture track of the Honors Program.

HON 311 ADVANCED SEMINAR IN SOCIAL SCIENCES (Subsidiary required)
(3) This course is designed to provide an in-depth multidisciplinary study of a specialized topic within the social sciences. Topics will vary from year to year, providing students with a diversity of material in the social sciences. The topics are examined from various Social Science disciplines such as Anthropology, Communications, Education, Family Studies, Geography, Political Science, Psychology, Social Work, and Sociology. Prereq: HON 141, HON 145 and membership in the Social Science track of the Honors Program.

HON 242 A SCIENTIFIC APPROACH TO UNCERTAINTY
(3) This course is designed to give students a multidisciplinary perspectve on the interaction of the science and art of statistics in the world around us. Particular attention will be focused on how this interaction has influenced the notion of quantitative argument in the social sciences. Although the course will emphasize ideas of mathematical computations, both will be encountered and explored in depth. Case studies and current social science controversies will be presented and discussed. Methodological arguments and techniques from sampling, experimental design, inference, and regression will be illustrated. Prereq: HON 141, HON 145, and membership in the Social Science track of the Honors Program.

HON 301 THE ARTIFICIAL INTELLIGENCE HONORS INDEPENDENT WORK
(3) An interdisciplinary seminar in the history of culture; topics will vary from semester to semester, but a substantial research essay is always required. This course will satisfy the Honors requirement for Independent Study. May be repeated to a maximum of six credits. Prereq: At least two Honors colloquia and membership in good standing in Honors Program or consent of instructor.

HON 333 JOURNAL-PROJECT I
(1-3) Special topics for Honors students. May be repeated up to 12 credits to keep an intellectual journal for both fall and spring semester, receiving one credit during the spring semester. Regular consultation with an assigned advisor, several group meetings during the year. May be repeated to a maximum of nine credits. Pass/Fail only. Prereq: Membership in the Honors Program.

HON 395 INDEPENDENT WORK
(3-15) Prereq: Upper division standing, membership in Honors Program, consent of Honors Director.

HON 396 UNDERGRADUATE THESIS
(6-15) A formal thesis on a subject of the student’s choosing, to be directed by a professor in his major department with the assistance of two other members, one of whom is the Honors Program faculty. Prereq: Junior-Senior status, good standing in Honors Program, and written permission from the Director of the Honors Program.

HISTORIC PRESERVATION

HIST 460 ADVANCED SEMINAR IN LODGING AND TOURISM
(3) This course is designed to further acquaint the student with the major trends occurring in the hospitality industry and to develop analytical skills pertaining to the course. The student should be able to identify trends; their timing; the causal effects they have on organizations; the actual probability of their occurrence; and impact on the workplace. Prereq: HON 120, HMT 208, HMT 210, HMT 270. For Hospitality Management and Tourism majors only.

HIST 480 TRENDS ANALYSIS FOR THE HOSPITALITY INDUSTRY
(3) The course is designed to acquaint the student with the major trends occurring in the hospitality industry and to develop analytical skills pertaining to the course. The student should be able to identify trends; their timing; the causal effects they have on organizations; the actual probability of their occurrence; and impact on the workplace. Prereq: HON 120, HMT 208, HMT 210, HMT 270. For Hospitality Management and Tourism majors only.

HIST 488 ADVANCED FOOD SERVICE MANAGEMENT SEMINAR
(3) An integrative and applied course that allows students to evaluate strategic planning, decision making and implementation for food service organizations. Prereq: HMT 120, HMT 208, HMT 210, MGT 301, MGT 300.

HIST 499 HOSPITALITY AND TOURISM SENIOR FIELD EXPERIENCE
(3) This course is designed to provide a field experience for the senior student. Topics vary in the specific applications as well as the Internet. Prereq: HMT 120, ACC 201.

HIST 501 PROSEMINAR
(3) This course is designed to provide an in-depth multidisciplinary study of a specialized topic within the broad field of social sciences. Topics will vary from year to year, providing students with a diversity of material in the social sciences. The topics are examined from various Social Science disciplines such as Anthropology, Communications, Education, Family Studies, Geography, Political Science, Psychology, Social Work, and Sociology. Prereq: HON 141, HON 145 and membership in the Social Science track of the Honors Program.

HIST 533 JOURNAL-PROJECT II
(1-4) Special topics for Honors students. May be repeated for a maximum of six credits. Prereq: Consent of instructor.
**Course Descriptions**

### Health Sciences Education

**HP 601 INTRODUCTION TO THE HEALTH SCIENCES.** (1)
Limited to students contemplating a career in one of the health sciences.

**HP 510 OLDER WOMEN AND THEIR HEALTH.** (3)
This course is designed to increase the awareness and understanding of the relationships among gender, the aging process and the health of older women. Such issues as changing social and cultural perspectives on aging, the importance of health care resources are discussed as they impact women. Prereq: Up to two years of undergraduate study.

### Health Services Management

**HSM 309 Course Descriptions**

- **HP 601 INTRODUCTION TO THE HEALTH SCIENCES.** (1)
  Limited to students contemplating a career in one of the health sciences.
- **HP 510 OLDER WOMEN AND THEIR HEALTH.** (3)
  This course is designed to increase the awareness and understanding of the relationships among gender, the aging process and the health of older women. Such issues as changing social and cultural perspectives on aging, the importance of health care resources are discussed as they impact women. Prereq: Up to two years of undergraduate study.
- **HSM 241 HEALTH AND MEDICAL CARE DELIVERY SYSTEMS.** (3)
  Review of the wellness-illness spectrum and the societal response in terms of health services. Topics to be covered include the nature and functions of health services agencies and professionals, and the impact of social, political, economic and technological forces. Also includes a discussion of major health problems and related health care programs. (Same as CSM 241.)
- **HSM 250 INTRODUCTORY EPIDEMIOLOGY.** (3)
  An introduction to the scientific study of the distribution and determinants of health and disease. Prereq: Area I requirements or permission of instructor.
- **HSM 260 INTRODUCTION TO HEALTH ADMINISTRATION.** (3)
  Introduction to administrative roles, functions, settings and requirements; interviews with health care administrators and case studies.
- **HSM 351 HEALTH SERVICES ADMINISTRATION.** (3)
  An introductory course with special emphasis on organizational behavior and analyses of various administrative processes and practices. Prereq: Professional, major, or graduate standing in a health care administration and one year of post-degree work in a health care setting or consent of instructor. (Same as CSLM 351.)

### Literature for Health Sciences

- **HP 601 INTRODUCTION TO THE HEALTH SCIENCES.** (1)
  Limited to students contemplating a career in one of the health sciences.
- **HP 510 OLDER WOMEN AND THEIR HEALTH.** (3)
  This course is designed to increase the awareness and understanding of the relationships among gender, the aging process and the health of older women. Such issues as changing social and cultural perspectives on aging, the importance of health care resources are discussed as they impact women. Prereq: Up to two years of undergraduate study.
- **HSM 241 HEALTH AND MEDICAL CARE DELIVERY SYSTEMS.** (3)
  Review of the wellness-illness spectrum and the societal response in terms of health services. Topics to be covered include the nature and functions of health services agencies and professionals, and the impact of social, political, economic and technological forces. Also includes a discussion of major health problems and related health care programs. (Same as CSM 241.)
- **HSM 250 INTRODUCTORY EPIDEMIOLOGY.** (3)
  An introduction to the scientific study of the distribution and determinants of health and disease. Prereq: Area I requirements or permission of instructor.
- **HSM 260 INTRODUCTION TO HEALTH ADMINISTRATION.** (3)
  Introduction to administrative roles, functions, settings and requirements; interviews with health care administrators and case studies.
- **HSM 351 HEALTH SERVICES ADMINISTRATION.** (3)
  An introductory course with special emphasis on organizational behavior and analyses of various administrative processes and practices. Prereq: Professional, major, or graduate standing in a health care administration and one year of post-degree work in a health care setting or consent of instructor. (Same as CSLM 351.)
HSM 333 HEALTH ADMINISTRATION, PLANNING AND MANAGEMENT TECHNIQUES. (3) Review of quantitative and nonquantitative techniques used in health care settings for planning, implementation and control. Emphasis will be placed on inter-disciplinary problem solving, participation in studies, research methods, management information systems such as PAS, HAS, ICD-A, and quality assessment systems. Prereq: Permission of instructor (which includes an earned Associate Degree in a health care discipline and one year of post-degree work in a health-care setting as consent of instructor.)

HSM 354 HEALTH LAW. (3) Introduction to concepts of administrative and tort law applicable to health care settings. Topics to be considered include government, professional and hospital liability, rehabs, managed care, malpractice, tax laws, contracts, labor law, regulation and institutional liability. Prereq: HSM 551 (which includes an earned Associate Degree in a health care discipline and one year of post-degree work in a health care setting or consent of instructor.) (Same as CLM 554.)

HSM 355 FINANCIAL MANAGEMENT OF HEALTH CARE INSTITUTIONS. (3) A functional approach to the financial management in health care institutions. Course will analyze regulatory and third party reimbursement for financial management, financial management practices, impact of financial mechanisms and practices on health services decision making. Prereq: Professional program status (which includes an earned Associate Degree in a health care discipline and one year of post-degree work in a health care setting) or consent of instructor. (Same as CLM 355.)

HSM 400 HOSPITAL AND HEALTH SERVICES: INTER-ORGANIZATIONAL RELATIONSHIPS. (3) Inter-organizational financial management and the health care industry. Emphasis will be placed on multi-hospital systems and the role of the hospital in a multi-hospital system. Prereq: HSM 351 and HSM 843.

HSM 451 TOPICS IN HEALTH ADMINISTRATION (3) (Same as MHA 451) (1-4) Readings, projects, lecture and discussion in seminar format to illuminate current topics of special interest or concern in health administration. An introduction to a topic repeated to a maximum of six hours. Prereq: Consent of department.

HSM 452 COMMUNITY AND INSTITUTIONAL PLANNING. (3) Inter-organizational services delivery. (3) Theoretical foundations for planning health. History of health planning and regulation. Specific attention will be given to integration of inter-organizational health planning and professional program status (which includes an earned Associate Degree in a health care discipline and one year of post-degree work in a health-care setting) or consent of instructor. (Same as CLM 452.)

HSM 510 ORGANIZATION OF THE LONG-TERM CARE CENTER. (3) The organizational structure and function of the long-term care center in conjunction with the health care setting and the role of noninstitutional alternatives. Analysis focused on the impact of changes in reimbursement policy, interorganizational relations, newly emerging treatment modalities, and the influence of the external environment, political, economic, and political environment. Prereq: A course in health care delivery systems or permission of instructor. (Same as CLM 510.)

HSM 511 INDEPENDENT STUDY IN HEALTH SERVICES ADMINISTRATION. (1-3) Directed independent study and/or community health study. May be repeated to a maximum of six hours, Prereq: Professional program status (which includes an earned Associate Degree in a health care discipline and one year of post-degree work in a health-care setting) or consent of instructor. (Same as CLM 511.)

HSM 601 OVERVIEW OF THE HEALTH CARE DELIVERY SYSTEM. (3) An introduction to the health care delivery system in the United States, including the concepts, function, the interrelationships of organizations within the system in various settings, health care terminology, and major problems and issues in the delivery of health services. Prereq: Professional program status (which includes an earned Associate Degree in a health care discipline and one year of post-degree work in a health-care setting) or consent of instructor. (Same as CLM 601.)

HSM 602 LEGAL ASPECTS OF HEALTH ADMINISTRATION. (2) Legal principles and implications related to the application of law to management issues in health care organizations. Skills including terminology, legal reasoning, the tools of law, and topics specific to the health care setting. Prereq: Professional program status (which includes an earned Associate Degree in a health care discipline and one year of post-degree work in a health-care setting) or consent of instructor. (Same as MHA/MPA program status.)

HSM 624 INFORMATION SYSTEMS IN HEALTH CARE. (3) This course will focus on the life cycle approach to information systems development. Phases of this approach include systems analysis, design, implementation, maintenance and evaluation. This approach has a technological, financial, and human factors component. (Same as CLM 624.)

HSM 635 MANAGEMENT ACCOUNTING FOR HEALTHCARE ORGANIZATIONS. (3) This course is designed to introduce management accounting techniques to decision making in health care organizations. Prerequisites: Problems and case studies will be used to provide an opportunity to focus on the various types of providers. Prereq: MHA/MPA program status and HA 601 and HA 621.

HSM 637 HEALTH FINANCE. (3) This course considers principles of finance to the financial management of health care institutions. The major financial incentives which dictate how health care is financed are described and strategies employed to effect these incentives are examined. Prereq: HSM 510, MHA/MPA program status and HA 601, HA 621, PA 623, HA 635.

HSM 660 DECISION MAKING IN HEALTHCARE. (3) This course is designed to build on the concepts and techniques introduced in the MHA curriculum and integrate them with a decision making focus in a variety of health care settings. Case analysis will be used extensively to develop an opportunity for the student to learn to apply the appropriate skills to an unstructured environment. Prereq: MHA program status and must be taken in last semester of MHA program studies.

HSM 775 SPECIAL TOPICS IN HEALTH ADMINISTRATION. (1-3) An analysis of selected issues with special significance for health administration. Prereq: MPA/MPA program status (which includes an earned Associate Degree in a health care discipline and one year of post-degree work in a health-care setting) or consent of instructor (Same as MHA 775.)

HSM 785 INTEGRATED HEALTH ADMINISTRATION. (1-3) Supervised individual research on a topic related to health administration selected by the student and the MHA Program. Prereq: repeated to a maximum of six hours. Prereq: Consent of instructor.

HSM 842 SEMINAR IN HEALTH ADMINISTRATION: PRE-PRACTICUM. (1) Preparatory seminar for the field practicum in health administration. Will cover such topics as self-assessment, interviewing skills, forms of organization, types of management, management techniques, and documentation. Prereq: CH 351, 355; Majors only with permission of department. A total of 6 credits. Prereq: CH 351, 355; Majors only with permission of department.

HSM 843 SEMINAR IN HEALTH ADMINISTRATION: POST-PRACTICUM. (1-12) Application of theoretical concepts in practice settings selected by faculty under the supervision of a preceptor and on-campus faculty. Includes in-depth analysis of problem in health administration. Must be repeated to a maximum of 12 credits. Laboratory: one 40-hour week equals one credit hour. Prereq: Majors only with permission of department. A total of 12 credits.

HSM 844 SEMINAR IN HEALTH ADMINISTRATION: POST-PRACTICUM. (1) Review of practicum experiences and an integration of theoretical concepts of health administration with the practice environment. Prereq: CH 843-majors only with permission of department. (Same as MHA 844.)

IBS Integrated Biomedical Sciences

IBS 601 BIOMOLECULES AND METABOLISM. (3) An introductory graduate-level biochemistry course designed to provide a basic knowledge of molecular and biochemical principles necessary for success in the health professions. Focus will be on the function, enzyme catalysis, the generation and storage of metabolic energy, amino acid, nucleotide, and lipid metabolism and biological membranes and transport will be covered. Prereq: CHE 105, 107, 230 and 232; BIO 150 and 152, or equivalents. (Same as BCH 607.)

IBS 602 BIOMOLECULES AND MOLECULAR BIOLOGY. (3) An introductory graduate-level biochemistry course focused on the cellular mechanisms that underlie the regulated expression of genes, including transcription and translation, as well as basic mechanisms of DNA replication/reaction and recombination. Genetic engineering and other experimental approaches critical to molecular biology research will be studied. Prereq: CHE 105, 107, 230 and 232; BIO 150 and 152, or equivalents. (Same as BCH 608.)

IBS 603 CELL BIOLOGY. (3) An introductory course in cell structure and function focused on cell types and architecture, membrane structure, cytoskeletons, mitochondria, cellular mechanisms of development, cell division, cell cycle, and normal and abnormal growth and proliferation of cells in the body. Prereq: CHE 105, 107, 230 and 232; BIO 150 and 152, or equivalents. (Same as CHE 603.)

IBS 605 NEUROLOGICAL SIGNALING. (3) An introductory course in the neurobiology of signaling, including interneuronal and intercellular communication, the generation of signaling molecules, and the cellular mechanisms including transmission, and regulation. Examination of cellular and molecular techniques important to understanding key advances in cell signaling will be included. Prereq: CHE 105, 107, 230 and 232; BIO 150 and 152, or equivalents.

IBS 605 EXPERIMENTAL GENETICS. (3) An introductory course in molecular genetics designed to expose first-year graduate students to contemporary concepts and methods in genetics and genomic analysis. Model systems and classic papers will be presented as paradigms for important genetic principles. Prereq: CHE 105, 107, 230 and 232; BIO 150 and 152, or equivalents. (Same as MI 605.)

IBS 606 INTEGRATED BIOMEDICAL SCIENCES. (4) Continuation of the faculty-designed capstone experience from the perspective ranging from the cellular sub-cellular to the organ system and whole organ system to allow students in the IBS curriculum to develop a comprehensive and cohesive appreciation of biology function. Prereq: IBS 601, 603 and 605.

IBS 607 SEMINAR INTEGRATED BIOLOGICAL SCIENCES. (1) Weekly seminar devoted to the presentation and discussion of classic and new research. May be repeated to a maximum of four times; two semesters are required as part of the IBS curriculum. Prereq: Admission to IBS curriculum.

IBS 609 RESEARCH INTEGRATED BIOLOGICAL SCIENCES (1) Individualized laboratory and research experience under the supervision of a faculty member. May be repeated to a maximum of two credit hours. Two semesters are required as part of IBS curriculum. Prereq: Admission to IBS curriculum and consent of instructor.
ID 272 INTERIOR DESIGN STUDIO I: DESIGNER AS HUMANIST. (3) An introduction to the principles of design. Emphasis on design decisions and the cognitive processes involved in the creative problem-solving skills required. Prereq: Admission to upper division studio and concurrent enrollment in ID 274 or ID 279. (Subtitle required). (1-3)

ID 273 INTERIOR DESIGN STUDIO II: DESIGNER AS HUMANIST. (3) A survey of interior design principles, practices, theories, products and trends. Visuals, readings, discussions and exercises. Emphasis on increasing particularly the students’ awareness of the inherent physical and psychological qualities of one’s personal environment. Not open to freshmen. (Subtitle required). (1-3)

ID 274 INTERIOR DESIGN STUDIO III: DESIGNER AS HUMANIST. (3) Exploration of softer. Emphasis on macro and micro issues that influence human behavior and design decisions. Examination of shelter precedents and theory for hypothesis testing as a basis of problem solving. Model building, drawing and digital media required. Prereq: Concurrent enrollment in ID 264 and ID 273. (Subtitle required). (1-3)

ID 326 INTERIOR DESIGN EXPERIMENTAL PREPARATION. (1) Preparation for interior design internship or a study abroad experience. Must be taken the semester prior to the internship or study abroad travel experience. Prereq: Successful completion of one of ID 370 Vertical Studio. Concurrent enrollment in the second or third ID 370 Vertical Studio. (Subtitle required). (1-3)

ID 355 INTERIOR DESIGN STUDIO 1. (5) Studio problems related to professional responsibilities with respect to specific work assignment to be defined by faculty/employer/student. EXPERIENCE: INTERNSHIP. (9-12) Specific work assignment to be defined by faculty. May be repeated to a maximum of six credits. Prereq: Junior standing or consent of faculty. (Subtitle required). (1-3)

ID 359 SPECIAL TOPIC IN INTERIOR DESIGN (Subtitle required). (1-3) An in-depth study of design principles, design requirements and equipment for ambient, task and decorative illumination as utilized in the interior environment. Emphasis is on methods of light generation, control, product analysis, selection, and specification. Lectures, discussion, related readings, and field trips. Prereq: ID 274 or consent of instructor. (Subtitle required). (1-3)

ID 365 INTERIOR DESIGN FINISH MATERIALS. (3) An analysis and evaluation of interior design finish materials and production methods. Emphasis on health-safety-performance, price attributes, and user requirements. Lectures, discussions, field trips, research, analyses, and calculations. Prereq: MAT 121; concord ID 355. (Subtitle required). (1-3)

ID 366 LIGHTING DESIGN AND THEORY. (3) An in-depth study of design principles, design requirements and equipment for ambient, task and decorative illumination as utilized in the interior environment. Emphasis is on methods of light generation, control, product analysis, selection, and specification. Lectures, discussion, related readings, and field trips. Prereq: ID 274 or consent of instructor. (Subtitle required). (1-3)

ID 370 VERTICAL STUDIO. (5) Continuation of Interior Design Studio sequence with particular focus on design decisions and the cognitive processes involved in the creative problem-solving skills required. Prereq: ID 274 or ID 279. (Subtitle required). (1-3)

ID 395 INDEPENDENT STUDY IN INTERIOR DESIGN. (1-3) Problems involving independent study/literary study concerning the student’s special interest under the direction of an appropriate faculty. May be repeated to a maximum of six credits. Prereq: Consent of instructor and contractual agreement is required. (Subtitle required). (1-3)

ID 427 INTERIOR DESIGN OUTREACH EXPERIENCE GEAR. (9-12) A supervised full-time work experience with a professional interior design studio in a metropolitan area preferably outside Lexington. Specific work experience may be arranged in Early Childhood Education. Prereq: ID 326 and successful completion of two of ID 370 studios. (Subtitle required). (1-3)

ID 428 INTERIOR DESIGN OUTREACH EXPERIENCE II. (9-12) A study abroad program that investigates design in a foreign culture. Studio experience in combination with on-site lectures and discussions provided by the host university for exploring and solving design problems considering contextual factors and design theories in relation to the locale and precedent. Nine credits earned during summer semester. Twelve credits may be earned if fall credit. Prereq: ID 326 and successful completion of two of ID 370 studios. (Subtitle required). (1-3)

ID 429 INTERIOR DESIGN PORTFOLIO PREPARATION. (2) A comprehensive review of media and processes leading to the preparation of a professional portfolio. Prereq: ID 470. (Subtitle required). (1-3)

ID 460 COMPREHENSIVE RESEARCH AND PROJECTS. (3) Detailed research and programming for individual comprehensive studio project. Includes documentation of design issues, research, case studies, analyses as well as graphic presentation. Prereq: Senior standing and consent of instructor. (Subtitle required). (1-3)

ID 466 INTERIOR DESIGN PROFESSIONAL EXPERIENCE. (3) The development of custom design elements and studies within the framework of professional business practices and documentations. Lectures, guest speakers, workshops and design competitions. Prereq: ID 460. (Subtitle required). (1-3)

ID 470 INTERIOR DESIGN PROBLEM SOLVING: DESIGNER AS CREATOR AND DIAGNOSTICIAN. (5) Studio problems related to institutional facilities. Issues and/or special populations, such as education, healthcare and the elderly. Includes custom design specifications, models and working drawings, studio, readings, analyses, and field trips. Prereq: ID 427 or ID 428 and three semesters of ID 370. (Subtitle required). (1-3)

ID 471 COMPREHENSIVE INTERIOR DESIGN STUDIO. (5) Comprehensive and integrative solution to a selected design problem in the community. Prereq: ID 460. (Subtitle required). (1-3)

ID 480 INTERIOR DESIGN STUDY TOUR. (1-3) A domestic or foreign study tour to include investigations of interior design. Professional visits are planned to particular institutions. Application and payment dates are determined each semester by the instructor. May be repeated one time if tour destinations are different. Prereq: Priority is given to majors and upperclassmen另三个人。 (Subtitle required). (1-3)

ID 490 INTERNSHIP. (3, 6 or 9) Supervised experience with a cooperative design or industry establishment. May be repeated to a maximum of nine credits. Prereq: Senior standing and approval of application. Applications and payment dates are determined each semester by the instructor. May be repeated one time if tour destinations are different. Prereq: Priority is given to majors and upperclassmen另三个人。 (Subtitle required). (1-3)


ID 558 INTERIOR DESIGN STUDIO 4. (5) Advanced studio problems in interior design related to institutional spaces such as schools, hospitals and health care facilities. Studio experiences, analyses, discussions, and field trips. Studio. Ten hours per week. Prereq: ID 557. (Subtitle required). (1-3)

ID 559 SPECIAL TOPIC IN INTERIOR DESIGN (Subtitle required). (1-3) Study of interior design. Emphasis is on the role of professional business practices and documentations. Lectures, discussions, field trips, research, analyses, and calculations. Prereq: MAT 121; concord ID 355. (Subtitle required). (1-3)

ID 566 LIGHTING DESIGN AND THEORY. (3) An in-depth study of design principles, design requirements and equipment for ambient, task and decorative illumination as utilized in the interior environment. Emphasis is on methods of light generation, control, product analysis, selection, and specification. Lectures, discussion, related readings, and field trips. Prereq: ID 274 or consent of instructor. (Subtitle required). (1-3)

ID 570 VERTICAL STUDIO. (5) Continuation of Interior Design Studio sequence with particular focus on design decisions and the cognitive processes involved in the creative problem-solving skills required. Prereq: ID 326 or ID 379. (Subtitle required). (1-3)

ID 595 INTERVENTION PLANNING FOR CHILDREN WITH SPECIAL NEEDS. (3) This course will focus on the philosophical issues related to teaching young children with and without disabilities and the role of early childhood education in preparing young children for working with families. (Same as EDS 522.) Prereq: Consent of instructor. (Subtitle required). (1-3)

ID 596 EDUCATIONAL ASSESSMENT FOR CHILDREN WITH SPECIAL NEEDS. (3) An introduction to the history of early childhood special education including the evolution of historical and contemporary models. Examination of early intervention services, screening, assessment, instructional programming, integration of children with and without disabilities, family involvement, and service delivery systems. Emphasis is placed on assessment and promoting attainment of cognitive, language, social, self-help, and motor skills. Prereq: EDS 203 and admission to the Teacher Education Program or enrollment as required/elective course for IEC graduate students. Coreq: IEC 507, I508 and IEC 509. (Subtitle required). (1-3)

ID 597 PRACTICUM IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION. (3) A course field-based of the Early Childhood Education (IEC 507, 508 and 509) and is taught concurrently with these courses. This course provides an opportunity for students to demonstrate application of readings and interdiscplinary fieldwork. Prereq: Admission to Teacher Education Program or enrollment as required/elective course for IEC graduate students. Coreq: IEC 507, I508 and IEC 509. (Subtitle required). (1-3)

ID 599 LANGUAGE AND LITERACY FOR YOUNG CHILDREN. (3) An overview of the areas of language and literacy skills in early childhood. Will prepare early childhood education service providers to evaluate and plan developmentally appropriate environments to provide oral and written language and literacy. Prereq: Admission to TEP or enrollment as required/elective course for IEC graduate students. (Subtitle required). (1-3)

ID 600 ADMINISTRATION AND SUPERVISION IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION PROGRAMS. (3) A course designed for students preparing to become administrators or co-ordinators for early childhood education programs. Consideration is given to program evaluation, personnel training and supervision, appropriate curriculum materials, parent involvement and education, program management and funding. Prereq: IEC 290 or consent of instructor. (Subtitle required). (1-3)

ID 609 INTERDISCIPLINARY SERVICES FOR YOUNG CHILDREN. (3) This course will focus on the philosophical issues related to teaching young children with and without disabilities and the role of early childhood education in preparing young children for working with families. (Same as EDS 557.) Prereq: Enrollment as required/elective course for IEC graduate students. Coreq: IEC 507, I508 and IEC 509. (Subtitle required). (1-3)

ID 620 INSTRUCTIONAL PROGRAMMING IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION. (3) An in-depth study of the rationale and research history of the early childhood education of exceptional children. Emphasis is on the use of evaluation tools commonly used in the education of young children with disabilities will be presented, used and discussed. Individualized program planning based on test results and techniques for working will be presented. Methods of working with groups of exceptional children will be presented, implemented and discussed. Prereq: EDS 375 or EDS 680 and IEC 509 or equivalent or permission of instructor. (Subtitle required). (1-3)
IEC 621 ISSUES IN EARLY CHILDHOOD EDUCATION. (3)
Students will review, discuss and participate in issues in general and inclusive and discussion and learning experiences related to the prepara-
tion for teaching in early childhood. Discussion will cover a variety of
issues such as general and inclusive special preschool programs, infant interven-
tion programs, interdisciplinary child evaluation, instructional meth-
ods, strategies, and techniques in teaching general and early childhood special education. Prereq: EDS 375 or EDS 600 and 601.

IEC 623 ADVANCED PRACTICUM: INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION. (3)
Advanced study of issues related to inclusive programs for all young children and their families including etiology of disabilities, develop-
mentally appropriate practices, assessment, methodology and instruc-
tion, theories, and contemporary research findings. Prereq: Admission to the major in early childhood education and successful completion of a minimum of 24 semester hours of coursework in the program. May be repeated to a maximum of nine credit hours. Prereq: Admission to Master's program or permission of instructor.

IEC 710 CURRENT TRENDS IN INTERDISCIPLINARY EARLY CHILDHOOD EDUCATION. (3)
A study of contemporary child care issues that are the result of new and emergent early childhood education issues. Students will be required to apply for the Teacher Education Program. May be repeated to a maximum of six credits. Prereq: Senior status.

INF INFORMATICS

INF 401 INFORMATICS FUNDAMENTALS. (3)
An introduction to the fundamentals of informatics for students in a business, computer science, or other technical discipline. Emphasizes programming and problem-solving skills. Prereq: ECON 100 or 110.

INF 520 BIOMEDINFORMATICS. (3)
An introduction to computer analysis of macromolecular structure information. The course describes how to access, process, and interpret structural information regarding biological macromolecules as a guide to experiments in biology. Prereq: BIB 305 or BIB 360 or BIB 306 or BIB 310 or consent of instructor. (Same as BIB 520.)

ISP International Studies Program

ISP 599 STUDY ABROAD. (1-9)
A course designed for undergraduate and graduate students who go abroad for study following a plan developed as part of their aca-
demic programs with the Office for International Programs. May be repeated once. Prereq: 3.0 standing in the department and consent of instructor.

ITALIAN

ITA 101 ELEMENTARY ITALIAN. (3)
A study of the grammar and composition of Italian. Prereq: Consent of instructor.

ITA 102 ELEMENTARY ITALIAN. (3)
A continuation of ITA 101. Prereq: Consent of instructor.

ITA 201 INTERMEDIATE ITALIAN. (3)
A continuation of ITA 102. Prereq: Consent of instructor.

ITA 202 INTERMEDIATE ITALIAN. (3)
A continuation of ITA 201. Prereq: ITA 201.

ITA 263 MASTERPIECES OF ITALIAN LITERATURE IN TRANSLATION. (3)
A study of representative Italian writers and their works in a European context, using anthologies and complete texts where necessary. Prereq: Consent of instructor.

ITA 295 ITALIAN CONVERSATION AND COMPOSITION. (3)
Italian conversation and composition. Prereq: ITA 202 or equivalent.

ITA 395 INDEPENDENT STUDIES IN ITALIAN. (1-9)
Directed study in Italian literature, culture, and linguistics. May be repeated once. Prereq: 3.0 standing in the department and consent of instructor.

ITA 417 ADVANCED ITALIAN LANGUAGE. (3)
A course which permits students to pursue advanced language study at an advanced level. Both oral and written presentations are required. Readings of contemporary Italian prose will be selected to illustrate grammatical and cultural contexts. Prereq: Consent of instructor.

ITA 445 SURVEY OF ITALIAN LITERATURE. (3)
A survey of Italian literature from the beginning to the 17th century. Prereq: ITA 202.

ITA 563 STUDIES IN DANTE. (3)
Prereq: Consent of instructor.

ITA 564 LITERATURE OF THE ITALIAN RENAISSANCE. (3)
A study of the major literary trends and figures of the Italian Renaissance. Emphasis on the major authors from the beginning of the Renaissance to the High Baroque. Prereq: Consent of instructor.

ITA 569 TOPICS IN ITALIAN LANGUAGE, LITERATURE, OR CULTURE. (1-9)
A course which permits students to pursue advanced language study at an advanced level. Both oral and written presentations are required. Readings of contemporary Italian prose will be selected to illustrate grammatical and cultural contexts. Prereq: Consent of instructor.

STUDENT 499 STUDY ABROAD. (1-9)
A course designed for undergraduate and graduate students who go abroad for study following a plan developed as part of their aca-
demic programs with the Office for International Programs. May be repeated once. Prereq: 3.0 standing in the department and consent of instructor.
JAT 241 COMMUNICATIONS PRACTICUM. (1-4) Supervised laboratory work in the media of mass communications, with meetings for evaluation of work, study of techniques, analyses of problems, and research related to a maximum of four credits. (Offered in Community College System only.)

JAT 395 INDEPENDENT STUDY. (1-3) Designed for students with research or special study problems. Regular consultation with the instructor. May be repeated to a maximum of six credits. Enrollment normally limited to juniors and seniors. See prerogatives of the instructor. May be waived by the department in exceptional circumstances. Prereq: Consent of instructor.

JAT 399 INTERNSHIP (Subtitle required). (1-3) Qualified students enter the professional sector to refine skills and knowledge. Supervised internships approved by the School allow placements in industry, government, radio, television, print media, research agencies, etc. A signed contract must be completed prior to the start of the internship. Pass/Fail only. Prereq: Admission to upper-division, fulfillment of prerequisites for the major, and approval of internship director for the major.

JOU 101 INTRODUCTION TO JOURNALISM. (3) This course will introduce the history and social theories of journalism and introduces students to contemporary journalistic practice. Students will learn about the function and operation of print, electronic and online media. Issues and concepts to be covered include the relationship of government to media, press freedom and controls, and the impact of the global communications. The course also covers the relationship of journalism to advertising, public relations and telecommunications, particularly with regard to new technologies. Prereq: JOU 101 or consent of instructor. (Same as CLD 304.)

JOU 204 WRITING FOR THE MASS MEDIA. (3) An introduction to the concepts and techniques of media writing. This course offers hands-on instruction in information gathering, organiza-

JOU 300 NEWS EDITING. (3) A study of words and their fundamental values with reference to development of a writer’s vocabulary. (Same as ENG 201.)

JOU 301 NEWS REPORTING. (3) A course designed to develop skills in information gathering, news judgment, organization and writing. Students will learn to cover breaking news and write features. Lecture, two hours; laboratory, two hours per week. Prereq: JOU/CLD 204 or equivalent. (Same as CLD 301.)

JOU 302 RADIO AND TV NEWS REPORTING. (3) An introduction to principles of broadcast writing and reporting. Students will complete assignments in class and WUKY FM, where they will prepare segments for newscasts under the supervi-

JOU 303 NEWS EDITING. (3) Instruction and practice in copy desk operation and the duties of copy editor. Topics include techniques for editing stories, handling wire copy, writing headlines and news judgment. Emphasis on electronic editing. Lecture, one hour; laboratory, four hours per week. Prereq: JOU 204.

JOU 304 BROADCAST NEWS DECISION MAKING. (3) This class is designed to sharpen students’ judgment and teach them the skills they will need to become assignment editors and producers of radio and television news. Students will study the content and selection of news stories, using audio materials from such sources as National Public Radio, and visual materials from CNN Newsroom. Lecture, two hours; laboratory, two hours per week. Prereq: JOU 101.

JOU 319 WORLD MEDIA SYSTEMS. (3) A comparison of the communications media in different countries of the world, and their past, present and future. How various political and social systems affect the media and how the media affect the societies in which they exist. Prereq: JOU 101, TEL 101, or JS 161.

JOU 330 WEB PUBLISHING AND DESIGN. (3) This course is designed to teach students to code and display information on the internet. Students will be introduced to basic techniques and strategies for publishing, designing and managing a web site for a newspaper, magazine, television station, advertising executive or related firm. Lecture, two hours; laboratory, two hours per week.

JOU 387 PHOTOJOURNALISM. (3) A hands-on course in the use of cameras and laboratory equipment in contemporary news photography. Selected readings on photographic methods and the ethics of photography. Lecture, two hours; laboratory, two hours per week.

JOU 403 TV NEWSCAST PRODUCING. (3) This class is designed to train students to become television newscast producers. Students will prepare TV newscasts with an emphasis on news story placement as it relates to audience, viewing trends, and journalistic judgment. Students will learn critical thinking skills in producing it as relating to audience and story presentation, reacting to major news events and their coverage, and talent and time management. Students will be required to write news stories in different formats for different newscasts and address ethical and legal concerns of news stories. JOU 404 ADVANCED TV NEWS: JAT NEWS. (3) Students in this class will cover an electronic TV newscast shown on cable channel to 60,000 homes in the Lexington area. Students will hone their writing skills and their proficiency in shooting and editing video for newscasts and reporting to managers and anchors. May be repeated for up to six hours credit, with permission of instructor. Lecture, one hour per week; laboratory, four hours per week. Prereq: JOU 302.

JOU 409 MAGAZINE ARTICLE WRITING. (3) An advanced writing course designed to teach students to generate, report and write magazine articles for national and local magazines, and to market freelance articles. Lecture, two hours; laboratory, two hours per week. Prereq: JOU 301.

JOU 410 PUBLICATIONS PRODUCTION. (3) Study of theory and practice in the techniques of effective commu-

JOU 430 MEDIA MANAGEMENT AND ENTREPRENEURSHIP. (3) An introduction to news media management focusing on start-up, design and operation of newspapers and magazines. This course takes an intensive look at the content, advertising, business, and management side of journalism. Lecture, two hours per week; laboratory, two hours per week. Prereq: JOU 301.

JOU 455 MASS MEDIA AND DIVERSITY: (Subtitle Required.) (3) This course will familiarize students with computer programs used in publication design. Students develop their skills through hands-on exercises and projects. May be repeated to a maximum of three credits under different subtitles. Prereq: Will be determined by topic of course.

JOU 460 JOURNALISM IN SECONDARY EDUCATION. (3) A course designed to familiarize students with a variety of legal and ethical issues facing student journalists and media advisors in sec-

JOU 467 PHOTOJOURNALISM. (3) An in-depth study of the many facets of photojournalism from the photographer’s point of view. Students will also probe the legal and ethical aspects of news photography. Lecture, one hour; laboratory, four hours per week. Prereq: JOU 301.

JOU 467 SPECIAL TOPICS IN JOURNALISM: (Subtitle required). (1-3) Courses will be offered on a wide variety of topics related to journalism and journalism-related fields. Title assigned each time course is offered. May be repeated with different subtitles to a maximum of six credits.

JOU 469 ADVANCED WRITING FOR THE MASS MEDIA: (Subtitle Required). (3) A course designed to provide journalism majors advanced training in reporting and writing articles on current events, public issues, personalities, culture, and entertainment for the print and electronic media. Areas of emphasis will vary each semester. These include reporting on business, the arts, government and sports. May be repeated to a total of nine credits with different subtitles. Lecture, two hours; laboratory, two hours per week. Prereq: JOU 301 or JOU 302.

JOU 531 LAW AND ETHICS. (3) A study of the legal and ethical issues facing the mass media. The course will focus on the rights, constraints and responsibilities under the U.S. Constitution, federal and state statutes, and the common law, and voluntary codes of ethics. Specific topics include libel, privacy, contempt of court, state and federal regulations of news media, commercial speech, prior restraint, access, the civil and judicial criminal processes and obscenity.

JOU 532 ETHICS OF JOURNALISM AND MASS COMMUNICATION. (3) An examination of ethics in journalism and mass communication focusing on the social, political and economic context of ethical issues. Students will reason through issues of value that arise in the practice of journalism. JOU 533 HISTORY OF JOURNALISM. (3) A study of the development of American journalism, with emphasis on the evolution of newspapers and electronic news media. Examina-

JPN 101 BEGINNING JAPANESE. (4) A course in first semester Japanese language. Prereq: JPN 101 or equivalent.

JPN 102 BEGINNING JAPANESE. (4) A course in second semester Japanese language. Prereq: JPN 101 or equivalent.

JPN 201 INTERMEDIATE JAPANESE. (3) A course in third semester Japanese language. Prereq: JPN 201/RAE 121 or equivalent.

JPN 202 INTERMEDIATE JAPANESE. (3) A course in fourth semester Japanese language. Prereq: JPN 201/RAE 220 or equivalent.

JPN 301 ADVANCED JAPANESE. (4) This primarily a course in contemporary Japanese conversation, but serves as a third year language course. The “texts” will consist of contemporary written materials (books, magazines, newspapers) and visual materials (tv programs, movies) and will exercise the four skills (reading, writing, listening, speaking) studied in the first four semesters of the language. By building on the skills learned in the initial semesters, this course will combine and strengthen the oral and aural, written and reading skills in Japanese, for students who have studied the equivalent of two years of Japanese language. Further, this course will emphasize the reading and writing skills. It is paired with JPN 302, a course emphasizing reading and writing skills. Thus, students who complete this course will be able to communicate at a rather sophisticated level and demonstrate competency in contempo-

JPN 320 INTRODUCTION TO JAPANESE CULTURE, PRE-MODERN TO 1688. (3) This course, taught in English, is designed as a general introduction to the culture of pre-modern Japan (up to the Meiji Restoration of 1868). This discussion will focus heavily on the literary arts but will also encompass film, architecture and the fine arts.

JPN 321 INTRODUCTION TO JAPANESE CULTURE, MEIJI (1868) TO PRESENT. (3) General introduction to Japanese culture from Meiji Restoration (1868) to the present, focusing mainly on the literary arts, but also including film, architecture and the fine arts. (Same as ART 321.)

JPN 334 ENVIRONMENT, SOCIETY AND TECHNOLOGY OF JAPANY. (3) This course examines some of the major aspects of the society, culture, and economy of Japan. It discusses Japan’s human and natural resources; the history of contemporary written materials (books, magazines, newspapers) and visual materials (tv programs, movies) and will exercise the four skills (reading, writing, listening, speaking) studied in the first four semesters of the language. By building on the skills learned in the initial semesters, this course will continue and strengthen the oral and aural, written and reading skills in Japanese, for students who have studa

JPN 395 INDEPENDENT WORK IN JAPANESE. (1-6) Variable in content, this course focuses on important texts and issues related to Japanese history, literature and culture. May be repeated to a maximum of six credits. Prereq: Instructor approval.

JPN 400 TOPICS IN JAPAN STUDIES (Subtitle required). (3) Variable in content, this course focuses on important texts and issues related to Japanese history, literature and culture. May be repeated to a maximum of six credits under different subtitles. To be taught in English.

JPN 405 SEMINAR IN JAPANESE AND ASIAN STUDIES (Subtitle required). (3) An interdisciplinary seminar focusing on a topic in Japanese and Asian Studies. May be repeated to a maximum of six credits. Prereq: Instructor approval.

JPN 420 PRE-MODERN LITERARY ARTS OF JAPAN. (3) This course will introduce representative literary and visual arts of Japan, from antiquity until the mid-nineteenth century. This serves as an introduction to intellectual questions that have intrigued Japanese society in the last century and a half, key to understanding contemporary Japanese culture.
The primary goal of the course is to equip the student with the skills necessary to effectively teach track and field. Laboratory, three hours per week.

KHP 159 TENNIS. 

Designed to familiarize the professional physical education student with the skills, practices, techniques, and theory of tennis. Development of at least an intermediate skill level is expected of the students. The primary goal of the course is to equip the student with the skills necessary to effectively teach tennis. Laboratory, six hours per week for one-half semester or three laboratory hours per week per semester. Prereq: PHED and KINE majors only.

KHP 160 BADMINTON. 

Designed to familiarize the professional physical education student with the skills, practices, techniques, and rules of badminton. Development of at least an intermediate skill level is expected of the students. The primary goal of the course is to equip the student with the skills necessary to effectively teach badminton. Laboratory, six hours per week for one-half semester or three laboratory hours per week per semester. Prereq: PHED and KINE majors only.

KHP 161 GOLF. 

Designed to familiarize the professional physical education student with the skills, strategies, rules and techniques of golf. Development of at least an intermediate skill level is expected of the student. Laboratory, six hours per week for one-half semester or three laboratory hours per week per semester. Prereq: PHED and KINE majors only.

KHP 162 OUTDOOR EDUCATION THROUGH ADVENTURE. 

An overview of outdoor educational skills and wildlife activities for the development of the student’s skills necessary to effectively teach these three sports in both the upper elementary, middle, and secondary schools. Development of at least intermediate skill level is expected of the students. Laboratory; six hours per week for one semester. Prereq: KINE or KIEP majors only.

KHP 163 TEAM HANDBALL-NEW GAMES.

This course is designed to familiarize the physical education student with the skills, practices, techniques, and theory of team handball and new games. Laboratory, six hours per week for one-half semester or three laboratory hours per week per semester. Prereq: PHED and KINE majors only.

KHP 181 MODERN DANCE. 

Techniques of creative dance including movement sequences leading to individual creative studies in individual compositional elements. Laboratory, four hours.

KHP 182 MODERN DANCE II.

Advanced techniques of modern dance. Special emphasis on the development of movement elements as motivated by specific content. Laboratory, four hours. Prereq: KHP 181.

KHP 200 THE HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION AND SPORT. 

An introduction to the history and philosophy of physical education. 

KHP 210 INTRODUCTION TO FITNESS. 

(Subtitle required). 

Designed to familiarize the professional physical education student with the theory, techniques, and practices of physical fitness and conditioning. Understanding of the basic principles and an attainment of above average personal physical fitness status is expected of the students. The primary goal of the course is to equip students with knowledge and skills to design an individualized plan for the achievement and maintenance of adequate nutrition and physical fitness. Weight control will be discussed in this content. Taught by nutrition faculty and health, physical education and recreation faculty. 

Lecture; two hours; laboratory; two hours. (Same as NPS 240.)

KHP 250 TEAM SPORTS. (Subtitle required).

This course is designed to familiarize the professional physical education student with the skills, practices, techniques, rules, and strategies of the sports of soccer, volleyball, and team handball. The primary goal of the course is to equip the student with the skills necessary to effectively teach these three sports in both the upper elementary and secondary schools. Development of at least an intermediate skill level is expected of the students. Laboratory; six hours per week for one semester. Prereq: KINE or KIEP majors.

KHP 252 WATER SAFETY LEADERSHIP. 

Leadership training in the areas of lifeguarding, diving, synchronized swimming, competitive swimming, camp waterfront, beach and pool operation and exhibition. Laboratory, four hours. Prereq: Certified lifeguard certification.

KHP 260 INDIVIDUAL SPORTS. (Subtitle required).

This course is designed to familiarize the professional physical education student with the skills, practices, techniques, rules, and strategies of the sports of: golf, tennis, and badminton. The primary goal of the course is to equip the student with the skills necessary to effectively teach these three sports. Development of at least an intermediate skill level is expected of the students. Laboratory; six hours per week for one semester. Prereq: KINE or KIEP majors.

KHP 283 CURRICULUM DESIGN AND DEVELOPMENTAL SPORTS SKILLS IN THE ELEMENTARY SCHOOL. 

(3) The study of sports skills development and their inclusion in the elementary programs of games of low organization, lead-up games, of injuries. Films and other visuals; visiting physicians and teachers will be used to supplement instruction. The student will have an opportunity to gain practical experience. Lecture, one hour; laboratory, three hours.

KHP 300 PSYCHOLOGY AND SOCIOLOGY OF PHYSICAL EDUCATION AND SPORT. 

A survey course in the social and psychological factors which are related to the pursuit of movement through sport. Study of the sociological and psychological concepts which are relevant in understanding of sport in this country and the world. After the successful completion of this course, students will be able to define, discuss, and identify the basic social and psychological factors which are related to the pursuit of movement through sport.

KHP 319 SPORTS ADMINISTRATION. 

This course will provide students with introductory knowledge, interpretations skills, and mechanical techniques of officiating. Prereq: KINE major or permission of instructor.

KHP 340 ATHLETIC TRAINING. 

Consideration is given to the prevention, treatment, rehabilitation and reconditioning of injuries. Films and other visuals; visiting physicians and teachers will be used to supplement instruction. The student will have an opportunity to gain practical experience. Lecture; one hour; laboratory, three hours.

KHP 334 PHYSICAL EDUCATION IN THE SECONDARY SCHOOL. 

Required for teacher certification in physical education. Theory and practice in methods of teaching physical education activities and supervising programs in the secondary school. Lecture; two hours; laboratory; two hours per week. Prereq: Admission to KHP Teacher Education Program.

KHP 360 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. 

An introduction to the necessary skills needed for the planning and conduct of modern elementary physical education programs. Emphasis is placed on teaching basic movement skills, fundamental rhythmic and sports skills. Lecture; two hours; laboratory; two hours per week. Prereq: Admission to KHP Teacher Education Program.

KHP 363 FIELD EXPERIENCES IN SECONDARY EDUCATION. 

Field experiences with elementary school age children. P-12. Prereq: Admission to the KHP Teacher Education Program.

KHP 364 FIELD EXPERIENCES IN SECONDARY EDUCATION.

(1) Supervised experiences in school, agency, and recreation department and/or secondary school physical education programs. Field majors in Secondary Teacher Education Programs in the Department of Health, Physical Education and Recreation. Includes field trip, supervised programs and/or laboratory experiences. Prereq: Admission to the Teacher Education Program.

KHP 369 STUDENT TEACHING IN PHYSICAL EDUCATION. 

(3-12) For students who expect to teach and who meet the requirements for a major in physical education. Experience in working with children in physical education activities of the elementary or secondary school. Safety education also included. To be offered only on a pass-fail basis. Prereq: Admission to the Teacher Education Program or permission of instructor.

KHP 382 PHYSICAL EDUCATION FOR ELEMENTARY SCHOOL TEACHERS. 

Physical education for individuals who expect to be taught in the elementary schools. Includes instructional methods and management techniques appropriate for physical education programs at the elementary school level. Lecture; one hour, laboratory; two hours per week. Prereq: Admission to elementary or early childhood teacher education program or consent of instructor.
KHP 390 DANCE ACTIVITIES IN THE ELEMENTARY SCHOOL. (2) Designed for teachers of elementary children to give depth in significant phases of physical education of the elementary child. Special emphasis is given to acquisition of skills and understanding of the total dance program. Lecture, one hour; laboratory, two hours.

KHP 391 JAZZ DANCE. (1) Theory and practice of jazz dance from early 20th century to present. Lecture, one hour; laboratory, two hours.

KHP 392 JAZZ DANCE II. (1) Intermediate and advanced jazz, emphasizing contemporary techniques and styles. Lecture, one hour; laboratory, two hours. Preqrq. KHP 391 or equivalent.

KHP 393 RHYTHMICAL FORMS, IMPROVISATION, AND ANALYSIS. (3) An analysis of rhythmic forms of movement incorporating the principles of dance improvisation. The craft of improvisation using the principles of dance as an art form will be explored.

KHP 395 INDEPENDENT STUDY IN KINESIOLOGY AND HEALTH PROMOTION. (1-3) May be repeated to a maximum of 12 credits. Preqrq. Major and G 3 standing in area or consent of instructor.

KHP 396 DANCE PEDAGOGY FOR MIDDLE AND HIGH SCHOOL. (3) This is a comprehensive study of teaching methods and materials for teachers of middle and high school students. Preqrq. KHP 390 and/or KHP 391.

KHP 420 PHYSIOLOGY OF EXERCISE. (3) An in-depth study of the immediate and long-term effects of exercise on the human body. Lecture, two hours; laboratory, two hours. Preqrq. ANA 219, PGY 206 or equivalent. Junior, senior or graduate standing.

KHP 430 METHODS OF TEACHING HEALTH EDUCATION. (3) A variety of contemporary teaching methods appropriate for use in grades K-12. Preqrq. KHP 391 or equivalent. Lecture, one hour; laboratory, two hours. Preqrq. KHP 391 or equivalent or consent of instructor.

KHP 445 INTRODUCTION TO TESTS AND MEASUREMENTS. (3) An analysis of contemporary performance tests in health, safety, physical education, and recreation. Laboratory experiences in the administration, interpretation, and analysis of performance tests are provided. Lecture, two hours; laboratory, two hours.

KHP 485 SPORT IN AMERICA. (3) An overview of the history and development of sport in the United States from colonial times to the present with emphasis on the scope and diversity of modern day sport and its impact on society.

KHP 515 ANATOMICAL AND MECHANICAL KINESIOLOGY. (3) A quantitative and qualitative study of human motion as it relates to locomotor and physical education activities. Lecture, two hours; laboratory, two hours. Preqrq. ANA 219, PGY 206, or equivalent and consent of instructor.

KHP 546 PHYSICAL EDUCATION WORKSHOP. (1-3) A concentrated study in a short activity or field of emphasis in physical education. May be repeated to a maximum of six credits.

KHP 547 PSYCHOLOGY OF SPORT AND PHYSICAL ACTIVITY. (3) An analysis of research findings in the psychology of teaching and coaching with emphasis on factors which influence the acquisition of motor skills as well as on the psychological benefits of exercise and sport. Preqrq. Undergraduate psychology course and basic statistics or consent of instructor.

KHP 560 MOTOR DEVELOPMENT IN INFANTS AND YOUNG CHILDREN. (3) An analysis of the processes of learning to move and moving to learn in infants and young children. Emerging interrelationships among the motor, social, emotional, and cognitive forms of behavior are explored. Laboratory experiences are provided in early childhood education programs. Prereq. PSY 100.

KHP 579 ADAPTED PHYSICAL EDUCATION. (3) A study of adapted physical education for individuals with disabilities. Experiences will include the appraisal of psychomotor functioning, design of instructional intervention, and methods of implementation and evaluation. Lecture, two hours; laboratory, two hours. Preqrq. KHP 515 or consent of instructor.

KHP 592 CHOREOGRAPHY. (2) Creation and production of dances in ballet, modern, and theater dance forms. Lecture, one hour; laboratory, two hours. Preqrq. Beginning ballet, modern and theater dance.

GRADUATE COURSES

KHP 644 RESEARCH TECHNIQUES APPLIED TO KINESIOLOGY AND HEALTH PROMOTION. (3) A critique of use and application of research design and methodology for purposes of developing more efficient research designs applicable to problems in kinesiology and health promotion. May be preceded or accompanied by basic statistics and introduction to measurement.

KHP 676 CURRENT ISSUES AND PROBLEMS IN KINESIOLOGY AND HEALTH PROMOTION. (3) A review of contemporary issues and problems affecting the profession of sport and fitness programs.

KHP 680 SPORT MANAGER'S LABORATORY. (3) Emphasis in physical education. May be repeated to a maximum of six credits. Preqrq. KHP 580 or consent of instructor.

KHP 695 INDEPENDENT STUDY IN KINESIOLOGY AND HEALTH PROMOTION. (1-3) Specific topic in physical education related to the student's interests and program needs is selected for intensive study. Work to be supervised by a graduate faculty member proficient in the area under investigation. May be repeated to a maximum of six credits. Preqrq. Consent of instructor.

KHP 701 MAJOR'S THESIS RESEARCH. (0) Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Preqrq. All course work toward the degree must be completed with satisfactory grades as well as required as continuous enrollment (Fall and Spring) until the dissertation is completed.

KHP 702 DISSERTATION RESIDENCY CREDIT. (2) Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester following the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) under the direction of advisor.

KHP 716 RESIDENCY CREDIT FOR THE MASTER'S DEGREE. (1-6) May be repeated to a maximum of 12 hours. Preqrq. KHP 759 or equivalent.

KHP 759 RESEARCH CREDIT FOR THE DOCTOR'S DEGREE. (0-12) May be repeated indefinitely.

KHP 771 PRO SEMINAR IN KHP (Subtitle required). (1-3) Advanced study of selected topics in kinesiology and physical education and recreation. May be repeated under a different subtitle to a maximum of nine credits. Preqrq. Consent of instructor.

KHP 782 INDEPENDENT RESEARCH IN KINESIOLOGY AND HEALTH PROMOTION. (3) Systematic investigation of a laboratory experiments in the areas of kinesiology and health promotion. May be repeated to a maximum of nine credits.

SPORT MANAGEMENT

KHP 570 PLANNING AND MANAGEMENT OF FACILITIES FOR SPORT. (3) An introduction to the planning and management of sport facilities. The course will cover organizational, design and management while examining functions related to maintenance, security, advertising and public relations evaluation. The course will present primarily in lectureformat utilizing guest speakers but will also include facility visitations as integral parts of the course. Preqrq. Upper division KHP major or equivalent.

KHP 573 MANAGEMENT OF SPORT. (3) An introduction to the five functions of management: planning, organizing, staffing, directing, including planning and controlling, and management in the organized sport programs. Preqrq. Upper division PHED, KINE majors or HPER. KHP major or consent of instructor.

KHP 577 INTEGRATED KINESIOLOGY AND HEALTH PROMOTION. (3-4) Extensive practical work experiences with qualified practitioners and KHP faculty. Preqrq. KINE, HPER, KHP majors only.

KHP 580 INTRODUCTION TO TEAM DEVELOPMENT. (3) An introduction to the concept of group theory, dynamics and properties as they apply to the team development in sport and non-sport settings. Students may be required to work with a team on selected sport and non-sport settings. Preqrq. Upper Division PHED, KINE majors or HPER. KHPR majors or consent of instructor.

KHP 593 FOUNDATIONS OF FOUNDATIONS OF MANAGEMENT. (3) An overview of the broad field of sport management with an emphasis on (1) the historical, political, sociological and economic processes which influence sport, and (2) the relationship of sport and business in society and their application to sport organizations. Preqrq. Sport Management graduate student or permission of instructor.

HEALTH PROMOTION

KHP 190 FIRST AID AND EMERGENCY CARE. (3) A study of first aid subject matter and orientation in the various first aid teaching methods. Lecture, one hour; laboratory, two hours; six-24 lab hours per week. May be taken on a pass/fail basis only. Preqrq. Admission to the Teacher Education Program in Health.

KHP 220 SEXUALITY EDUCATION. (2) This course is designed for educators to prepare students to offer sexuality education in the schools. Emphasis is placed on justification of sexuality education, relevant content, appropriate teaching techniques, and precautions to take when teaching sexuality education.

KHP 222 DRUG EDUCATION. (2) This course is designed to prepare educators to offer drug education in the schools. Emphasis is placed on the prevalence of drug use by youth; physiological, psychological, and social effects of various- drugs. Two hour drug education method, appropriate teaching methods, and substance abuse education are presented. Prereq. KHP 220 and KHP 230 or equivalents or permission of instructor.

KHP 271 STUDENT TEACHING IN HEALTH EDUCATION. (3-12) For students who expect to teach and who meet the requirements for a teaching certificate in Health Education. Includes objects, courses of study, methods, materials, and testing in Health Education. The course includes observation, practice, safety, education, audio-visual aids and planning conferences with supervising teacher. Six-24 lab hours per week. May be taken on a pass/fail basis only. Preqrq. Admission to the Teacher Education Program in Health.

KHP 280 SCHOOL HEALTH EDUCATION IN THE ELEMENTARY SCHOOL. (2) Presents health concepts to be taught in the elementary school. A brief discussion of the school health program and a review of instructional methods appropriate to health education in the elementary school are presented. Prereq. Admission to elementary or early childhood teacher education program or consent of instructor.

KHP 340 METHODS OF TEACHING HEALTH EDUCATION. (3) A variety of contemporary teaching methods appropriate for use in grades K-12 will be presented. Students will be exposed to these methods through textbook and outside readings and through observation of the instructor, public school teachers, and peer teachers. Methods will be critically examined for effectiveness in the cognitive, affective, and behavioral areas. Preqrq. Admission to elementary or early childhood teaching certificate program, or consent of instructor via permit; and admission to Teacher Education Program or consent of instructor via permit.

KHP 509 WORKSHOP IN HEALTH AND SAFETY. (3-12) Designed as a variable topic course including aspects of school health or safety education with emphasis upon the needs of teachers. May be repeated to a maximum of six credits.

KHP 609 SEMINAR IN HEALTH AND SAFETY EDUCATION. (3) Overview of the processes confronting persons in these fields and selected research findings applicable to these areas. Emphasis is given to a better understanding of research data and to a greater utilization of research results both in the school system and health and safety endeavors. May be repeated to a maximum of nine credits. Preqrq. Consent of instructor.

KHP 674 FOUNDATIONS OF HEALTH PROMOTION. (3) This course is designed to provide students with the foundations of health promotion and education including history, philosophy, and ethics in the field. Preqrq. Health related background and/or course work. Consent of the instructor.

KHP 675 HEALTH ASSESSMENTS. (3) This course prepares students related to assessing the health status at the individual and community level in a wellness environment. Emphasis is placed on, but not limited to, physical and psychological components of wellness. Preqrq. Completion of or concurrent enrollment in KHP 674 or equivalent. Consent of the instructor.

KHP 677 PLANNING AND HEALTH PROMOTION PROGRAMS. (3) This course addresses principles of planning, design, implementing, and evaluating health promotion and education programs. Prereq. KHP 674 or equivalent/Consent of the instructor.

Course Descriptions 315
EXERCISE SCIENCE

KHP 350 STRENGTH AND CONDITIONING FOR SPORTS. (3)
This course will cover the fundamental principles of Exercise Science specifically as they relate to the conditioning of athletes. The course will focus on pre-season conditions for success and post-season completion of the National Strength and Conditioning Association’s CSCS exam. Prereq: ANA 209, PGY 206, KHP 120.

KHP 450 INTRODUCTION TO EXERCISE SCIENCE, along with their minor.
This course addresses fundamental principles of Exercise Science specifically as they relate to the testing and exercise prescription of athletic performance and conditioning. Prereq: consent of instructor.

KHP 660 EXERCISE STRESS TESTING AND PRESCRIPION. (3)
Knowledge required for the administration of an exercise stress test with implications for writing an exercise prescription. Content covers healthy individuals as well as those with various health problems such as heart disease, hypertension, mental illness and diabetes. Course implements the Guidelines of the American College of Sports Medicine in preparing a specialist in exercise stress testing. Lecture, two hours; laboratory, two hours per week. Prereq: PGY 206, KHP 420G, consent of instructor.

KHP 610 MOTOR CONTROL: MUSCLES, STRENGTH AND MOVEMENT. (3)
A course will teach the relationship between muscle force, motor control, understanding of neuromuscular and musculoskeletal interactions. Prereq: Anatomy, Physiology

KHP 601 MECHANICS OF FUNDAMENTAL MOVEMENTS. (3)
A research oriented, qualitative and quantitative investigation into the fundamental principles of movement with an emphasis on experimental design. Prereq: consent of instructor.

KHP 616 SPORTS BIOMECHANICS. (3)
Application of fundamental concepts in biomechanics to analysis of sports skills. Course will examine how motions are created and controlled to enable specific sport performances. Mechanics related to injury will also be investigated. Prereq: Undergraduate course in biomechanics and consent of instructor.

KHP 617 GAIT ANALYSIS. (3)
This course is a graduate level experience into the analysis of human gait. Walking, running, and pathological gait will be studied. Prereq: KHP 615 or similar course.

KHP 618 WORK HARDENING AND ERGONOMICS. (3)
A study of the basic areas of ergonomics including: anthropometrics, repetitive movements, repetitive motor disorders, low back pain, design of manual handling tasks, and job evaluation tools. The class will also discuss important government documents such as the OSHA, lifting equation and the Americans with Disabilities Act. Prereq: Consent of instructor.

KHP 619 ADVANCED EXERCISE PHYSIOLOGY. (3)
Aimed at development of an in-depth understanding of the acute and chronic adaptations of the human body to the stress of exercise. Lecture, two hours; laboratory, two hours. Prereq: KHP 420G or consent of instructor.

KHP 640 LAB METHODS IN EXERCISE SCIENCE. (3)
Introduces the techniques used in the design, analysis, and interpretation of exercise science. Emphasis is placed on calibration of instruments and on concepts of accuracy, validity and reliability. Prereq: Consent of instructor.

KHP 650 MOTOR CONTROL: REFLEXES, COGNITION AND MOVEMENT. (3)
This course is in the motor control sequence introduces recent theories on how cord and brain function to aid in movement control. Prereq: Anatomy & Physiology, Motor Control I, or consent of instructor.

KHP 715 THREE-DIMENSIONAL BIOMECHANICAL ANALYSIS OF HUMAN MOVEMENT. (3)
The course will cover an in-depth study of the basic methods of three-dimensional biomechanical analysis of human movement based on the inverse dynamics approach. Prereq: KHP 615 or consent of instructor.

KHP 720 SPORTS MEDICINE. (3)
A study of the basic area covered in sports medicine with readings and discussions of current national trends in research and practice in this field. Prereq: Twelve semester hours; credit in the field of biological sciences; consent of instructor.

KHP 760 ADVANCED MINIWORKSHOP IN EXERCISE SCIENCE. (0-1)
Faculty, students and invited speakers will present and discuss current research related to Exercise Science. Students enrolled may be required to present a seminar on their own research. Students presenting a seminar will be provided feedback by faculty and seminar topics will repeat in a maximum of 3 times for credit, unlimited times for zero credit. Prereq: Graduate standing in Ph.D. in Exercise Science program or consent of instructor.

LA Landscape Architecture

LA 205 HISTORY OF LANDSCAPE ARCHITECTURE. (3)
A study of landscape architecture and its influence over time. Course may have influenced our present approach to dealing with our landscape.

LA 206 CONTEMPORARY LANDSCAPE ARCHITECTURE. (3)
A survey of contemporary landscape architecture, its evaluation and implications for the future of the practice. Prereq: LA 205.

LA 621 LANDSCAPE ARCHITECTURE DESIGN STUDY I. (3)
Introduction to the fundamental elements and principles of design and their application to the representation and perception of pictorial space; and observation and association as a means to visual literacy. Lecture, three hours; studio, nine hours per week. Prereq: Must be accepted into the Landscape Architecture Program.

LA 622 LANDSCAPE ARCHITECTURE DESIGN STUDY II. (3)
Application of the basic design vocabulary established in the fall for solving more complex spatial problems. Focus on the identification, creation and exploration of space in three dimensions, and the development of conceptual problem solving. Lecture, three hours; studio, nine hours per week. Prereq: LA 621 with a minimum grade of “C” and enrollment in ARC 828 (or previous completion of equivalent courses). Prereq: Consent of instructor.

LA 633 LANDSCAPE ARCHITECTURE DESIGN STUDY III. (3)
Design studies concerning design process applied to site programming, landscape analysis, and site planning. Use of actual sites to emphasize relationships between landscape analysis processes and landscape design. Prereq: KHP 615 or consent of instructor.

LA 634 LANDSCAPE ARCHITECTURE DESIGN STUDY IV. (3)
Design studies concerning design process applied to site design and integration of design theories. Investigation and application of context, composition, typology, landscape ecology and other theoretical constructs to design problems as they emerge. Expression of design ideas through the use of two and three dimensional communications media. Required field trip. Lecture, three hours; studio, nine hours per week. Prereq: LA 633 with a minimum grade of “C”, HOR 320, GLY 101/111.

LA 641 LANDSCAPE ARCHITECTURE DESIGN STUDY V. (3)
Study design of engaging design process and principles in the development of design solutions for a variety of projects. Lecture, three hours; studio, nine hours per week. Prereq: KHP 356, HOR 320 and LA 632 with a minimum grade of “C”.

LA 642 LANDSCAPE ARCHITECTURE DESIGN STUDY VI. (3)
Study design process with emphasis on project-type design and an introduction to large scale site planning. Lecture, three hours; studio, nine hours per week. Prereq: LA 641 with a minimum grade of “C”.

LA 680 LANDSCAPE ARCHITECTURE GRAPHICS. (3)
A study of landscape architecture graphics including freehand sketching, plan, section, and perspective drawing. Rendering techniques in both black and white will be explored with an emphasis on spatial media including pencil, marker, pastel, and airbrush. Lecture, three hours; studio, two hours per week. Prereq: May be taken with or after LA 652; non-LA majors must have permission of instructor.

LA 691 DESIGN WITH PLANTS. (3)
The application of design principles to the functional and aesthetic use of plant materials in the landscape. Lecture, two hours; studio, two hours per week. Prereq: HOR 320, LA 680 and LA 850 or permission of instructor.

LA 693 HISTORY AND THEORY OF URBAN FORM. (3)
Exploration of the patterns and concepts of urban settlement - how and why we have developed the form that has become SITE - through a study of historic and contemporary urban spaces. Topics will range from civic topography and democratic terrain to the phenomenon of place and other current issues in urban design. Prereq: LA 205 and LA 206 or permission of the instructor.

LA 694 LANDSCAPE ARCHITECTURE PRACTICE: PRESERVATION. (3)
Introduction to the conceptual frameworks of preservation philosophy, strategies, and methods. Exploration of regional landscapes and case studies as they relate to solving landscape preservation problems with an emphasis on process. Lecture, two hours; studio, two hours per week. Prereq: LA 606 or permission of instructor. Graduate credit will be limited to Master’s students enrolled in the Historic Preservation graduate program and the awarding of graduate credit in each case requires the approval of the Director of Graduate Studies in Historic Preservation.

LA 695 GEOGRAPHIC INFORMATION SYSTEMS IN LANDSCAPE ARCHITECTURE. (3)
Introduction to the concepts and methods of compilation, management, access, and display of spatially-referenced data. Lectures and computer work with computer based geographic information systems. Lecture, two hours; laboratory, four hours per week. Prereq: Fourth year LA major, junior/senior, or graduate student, CS 150, FOR 208 or GEO 415, or permission of instructor. (Same as NRC 555.)

LA 697 DESIGN THEORIES IN LANDSCAPE ARCHITECTURE. (3)
This course will act as an introduction to some of the conceptual and theoretical underpinnings of landscape architecture major and an approved project proposal.

LAS Latin American Studies

LAS 201 INTRODUCTION TO LATIN AMERICA. (3)
An interdisciplinary approach to the people, culture and development of the Latin American republics. Attention will be concentrated on six major aspects: economy, society, history, politics, ideologies, and culture. Prereq: Consent of instructor. May be repeated for credit.

LAS 361 LATIN AMERICAN LITERATURE IN TRANSITION (Subtitle required). (3)
This course examines particular authors, periods, regions, cultural events, and/or movements from Latin America. Special attention will be paid to links between literature and culture, politics and society throughout the development of literature in Latin America. Prereq: Consent of instructor. May be repeated for credit.

LAS 395 INDEPENDENT WORK IN LATIN AMERICAN STUDIES. (1-6)
Directed study based on the student's interest. Students must report to the student's professor for regular assignments, and any progress or completion. Prereq: Consent of instructor.

LAS 401 RESEARCH DESIGN FOR LATIN AMERICAN STUDIES. (3)
Research on an interdisciplinary topic approved by the LAS Advisory Committee in the area of Latin American Studies. Prereq: Major in Latin American Studies; senior standing.
LIN 210 HISTORY OF THE ENGLISH LANGUAGE (3)
A survey of the history of English from the Germanic roots of the European origins to the present. Includes an investigation of the principal changes which have affected English phonology, morphology, syntax, semantics, and of the ways in which these changes are reflected in contemporary English usage; and an examination of the socio-historical factors that have shaped the evolution of the language (same as ENG 210).

LIN 211 INTRODUCTION TO LINGUISTICS I (3)
This course is an introduction to the scientific study of human language, including: the fundamental principles of linguistic theory, and applications of these principles in the investigation of grammatical structure, language change, language universals and typology, universal grammar, and the relation of linguistic study to real-world problems, e.g. language and technology. Credit will be given to students who have already credit for ENG 414G. (Same as ENG 211.)

LIN 212 INTRODUCTION TO LINGUISTICS II (3)
This course is the second semester of a two-semester sequence introducing the study of Linguistics, the scientific study of human language as a system. This course focuses on the social aspects of linguistic study: Semantics, pragmatics, conversational interaction, language variation and register, dialects, linguistic aspects of sign languages, second language acquisition, and the acquisition of language by children. Prereq: ENGLIN 211. (Same as ENG 212.)

LIN 310 AMERICAN ENGLISH (3)
The study of the varieties of modern American English: regional, social, and ethnic variation; gender differences in communication, creoles and pidgins, stylistic variation. History and methods of American dialect study. (Same as ENG 310.)

LIN 317 LANGUAGE AND SOCIETY (Subtitle required) (3)
This course is an introduction to the study of various topics concerning the interaction between language use and social and cultural phenomena, including topics of language and cultural meaning, social segmentation and bilingualism, and multi-lingual communities, and the ethnography of communication. Course may be repeated under different subtitles to a maximum of six credits. Prereq: Consent of instructor. (Same as EDC/ENG 514.)

LIN 318 SEMANTICS AND PRAGMATICS (3)
This course focuses on how meaning is conveyed by the world’s languages, through context, representation and reference, focus, dislocation, and the relation of semantics and pragmatics of the 20th century. We discuss the semantics of words and then shift our study to investigate the way meaning is conveyed in larger units such as sentences and their conversations: the influence of context - social, physical, and linguistic - is also examined as it relates to meaning.

LIN 319 HISTORY OF LINGUISTICS (3)
Students in this course will study a variety of topics related to the topic of language change: the reconstruction of linguistic systems; language classification and classification; the structural and social context of language change. Prereq: ENGLIN 211, or ENG 414G, or equivalent. (Same as ANT 319.)

LIN 395 INDEPENDENT STUDY (1-6)
Study of special problems in linguistics under the direction of an instructor in the linguistics program. Prereq: LIN 211; major and 3.0 in linguistics or consent of instructor. (Same as ENG 395.)

LIN 512 MODERN ENGLISH GRAMMAR (3)
Contemporary approaches to grammatical analysis; the interrelations between morphology, syntax, semantics, and pragmatics. Prereq: ENGLIN 211 or ENG 414G or equivalent. (Same as ANT 512.)

LIN 514 TESL MATERIALS AND METHODS (3)
An extension of ENG/EDC 513, this course will include examination and evaluation of published materials designed for teaching English to speakers of other languages. Students will create individualized teaching materials and gain practical experience in applying the methods and tools taught in the course. Prereq: ENG/EDC 513 or consent of instructor. (Same as EDC/ENG 514.)

LIN 515 PHONOLOGICAL ANALYSIS (3)
An introduction to the study of the systems of speech sounds. Articulatory phonetics, analysis of phonological systems, phonological theories. Includes fieldwork on the phonology of a non-Indo-European language in a given academic year. The same language is the basis for fieldwork in ANT/ENGLIN 515 and ANT/ENGLIN 516. Prereq: ENGLIN 211 or equivalent. (Same as ANT/ENGLIN 515.)

LIN 516 GRAMMATICAL ANALYSIS (3)
Emphasis on the systematic interrelationships of morphemes within words and sentences. Practical training in the writing of grammars and exposure to various theories of grammatical description. Includes fieldwork on the morphology and syntax of a non-Indo-European language in a given academic year, the same language serves as the basis for fieldwork in ANT/ENGLIN 515 and ANT/ENGLIN 516. Prereq: ENGLIN 211 or equivalent. (Same as ANT/ENGLIN 516.)

LIN 517 SPECIAL TOPICS IN LINGUISTICS (Subtitle required) (3)
The focus will be on intensive study of problems and issues that do not fall under linguistics course headings. These may have an interdisciplinary emphasis, or they may concentrate on some special topics of current research. All topics will be subject to review by the director of the program and accepted under a special topics subtitle to a maximum of six credits. Prereq: Consent of instructor.

LIN 520 SANSKRIT I (3)
An introduction to the Sanskrit language. Includes a historical study of the language; detailed study of the devanagari writing system and of Sanskrit phonology and grammar; a recitation component; and the reading of selections. Prereq: Completion of the fourth semester of a foreign language.

LIN 521 SANSKRIT II (3)
A continuation of SANSKRIT I. Includes intensive study of the relationship of Sanskrit to other Indic languages (especially Vedic and Pali); discussion of the Indo-European ancestry of these languages; and the historical development of Sanskrit. Prereq: ENGLIN 520.

LIN 612 STRUCTURE AND STYLISTICS OF FRENCH (3)
A study of the history and structure of French with an emphasis on contemporary French. Prereq: Consent of instructor.

LIN 617 STUDIES IN LINGUISTICS (Subtitle required) (3)
A comprehensive investigation of some designated topic in general or applied linguistics. May be repeated to a maximum of nine credits under different subtitles. Prereq: An introductory course in linguistics (ANT 215, ENGLIN 211, or ENG 414G) or permission of instructor. (Same as ENG 675.)

LIS 610 INFORMATION SOURCES AND SERVICES FOR YOUNG ADULTS (3)
A study of the use of traditional and new information sources and materials for use with young people in grades 6-12. Emphasis is placed on the special characteristics and needs of young people and the evaluation of materials for this age group.

LIS 610 INFORMATION IN SOCIETY (3)
An introduction to the nature of information (both utilitarian and aesthetic) in contemporary society, and to the role played by libraries and other information organizations in disseminating that information. Emphasis is on developing perspective.

LIS 613 INFORMATION SOURCES AND SERVICES FOR YOUNG ADULTS (3)
An introduction to basic information services provided by libraries and information organizations. Consideration is also given to the ethics of information services, the user-system interface, including question- negotiation and the formulation of effective search strategies, and the evaluation of information sources and information services.

LIS 616 INFORMATION STORAGE AND RETRIEVAL (3)
An introduction to principles and practices of information analysis, organization, storage, retrieval and dissemination. Examines the structure of bibliographic records, indexing processes, indexes, indexing languages, catalogs and files, storage media, retrieval strategies and information delivery systems.

LIS 617 PROSEMINAR IN COMMUNICATION AND INFORMATION SYSTEMS (3)
Examination of various issues and developments relating to client, packaging, dissemination and use of social science information by various segments of society. Emphasis on understanding information needs of those who use social science information and information systems, source and services available to satisfy those needs. Prereq: LIS 601 or consent of instructor.

LIS 621 SOCIAL SCIENCE INFORMATION (3)
Examination of important issues and developments relating to creation, packaging, dissemination and use of social science information by various segments of society. Emphasis on understanding information needs of those who use social science information and information systems, source and services available to satisfy those needs. Prereq: LIS 601 or consent of instructor.

LIS 623 INFORMATION IN THE HUMANITIES (3)
The content and structure of bibliographic and other information resources in the humanities. A consideration of formal and informal communication within the humanities with special reference to library and book history. Consideration is also given to the role and purpose of research in library and information science and the instructional needs of clients, information literacy, methods of instruction, teaching and learning styles, instructional design and the evaluation of students and instruction. Prereq: LIS 601 or consent of instructor.

LIS 630 ONLINE INFORMATION RETRIEVAL (3)
Practical experience with computer-based information retrieval and search strategy development, online protocol, and evaluation of search results. Current status of the search tools in the online industry are also discussed. Prereq or concur: LIS 601, LIS 602 or consent of instructor.

LIS 631 DATABASE MANAGEMENT AND INFORMATION TECHNOLOGY (3)
A study of the computing fundamentals necessary for the understanding and use of information technology. Focus is on examining computer systems in concept and practice, which is essential to information professionals. Topics include how computers represent, process, store and retrieve information; how operating systems control these processes, interpret commands, present the user interface, and run applications; how databases are designed and created; and how general understanding of programming processes and productivity software skills is important in a variety of professional contexts. Productivity applications include the Office suite, Internet applications and web publishing, and database management systems.

LIS 633 INFORMATION TECHNOLOGY (3)
Study of computer and communication technology used in modern information storage and retrieval systems. Consideration also given to managing computer services, hardware evaluation and selection, and system security. Prereq: Consent of instructor. (Same as CFT 633.)

LIS 636 INTERNET TECHNOLOGIES AND INFORMATION SERVICES (3)
A course covering the development, development and evolution of the Internet, network protocols and clients/server architecture issues; Web page design, authoring, and performance testing of the Internet and its retrieval and retrieval system; recent advances in HTML and scripting languages; and Internet related social issues such as copyright and censorship. Prereq: LIS 638 or consent of instructor. (Same as CFT 638.)

LIS 638 CREATING AND MANAGING INFORMATION SYSTEMS (3)
A seminar which examines current philosophical and managerial approaches to online searching. The course contents cover the search process, search strategy development, online protocol, and evaluation of search results. Current status of the search tools in the online industry are also discussed. Prereq or concur: LIS 601, LIS 602 or consent of instructor.
LIS 639 INTRODUCTION TO MEDICAL INFORMATICS. (3) This course is designed to introduce the interdisciplinary field of medical informatics to health information professionals. Medical Informatics is a field that essentially seeks to apply information and computing technologies to improve all aspects of healthcare, including patient care, research, and education. During this course, a number of topics central to understanding the field, including: the nature of biomedical information, the use of information and computing technologies to support clinical decision making, healthcare and information standards, information retrieval, system analysis and technology transfer are discussed. Prereq: MA 109 high school algebra and a Math ACTE score of 23 or above, or consent of department.

LIS 641 LAW LIBRARIANSHIP. (3) A study of the materials of legal research and reference work. Emphasis is placed on the methods of effective research and the actual utilization of practical reference problems. The selection, cataloging, classification, and storage of materials are considered along with the role of information and computing technologies in legal education and medical ethics. By the end of this Web-based course, students are expected to be able to understand and demonstrate the use of technology in the delivery of legal information and library services. Prereq: LIS 601 and LIS 602 or consent of instructor. (Same as CIV 641.)

LIS 646 ACHIEVING AND MANAGING A PRACTICUM. (3) This course is designed to cover the management, care, and servicing of manuscript and archival material. Attention will also be given to the establishment of a bibliographic control system. Topics include appraisals and cataloging and the design and implementation of a repository and to the description and interpretation of its holdings in guides and catalogues for the use of researchers. Prereq: LIS 602 or consent of instructor.

LIS 644 ADMINISTRATION OF SCHOOL LIBRARY MEDIA CENTERS. (3) Examinations the philosophy behind current national and state guidelines for library media programs and addresses the roles of library media professionals. Includes the management of a library and archival collections. It is also for persons responsible for the archival management of oral history collections. The course examine the roles of professional and nonprofessional staff, how programs are administers, how interviews are conducted, and how oral history interviews are captured and made available to researchers. The course will cover the use of technology in making oral histories available to researchers on the Web. Students will gain practical experience in history interviewing and related aspects of oral history, such as transcribing, editing, and publishing oral histories. Taught essentially as EPE 669.

LIS 645 PUBLIC LIBRARIES. (3) Examinations historical development of the public library and its roles in society. Topics considered include the environment of public librarians; organization and management; information needs of client groups; information resources and services provided to clients; and trends in the development of public libraries. Prereq: LIS 601 and LIS 602 or consent of instructor.

LIS 646 ACADEMIC LIBRARIES. (3) Examinations the development of academic libraries and their roles in higher education. Topics considered include the environment of academic libraries, organization and management needs of client groups. Prereq: MA 112, 123, 162, 199, 201 and 202. Credit not available by special examination. Prereq: MA 119 high school algebra and a Math ACTE score of 23 or above, or consent of instructor.

LIS 647 CURRENT TRENDS IN SCHOOL MEDIA CENTERS. (3) An intensive study of trends in school media centers with emphasis on research, technology, and current developments in school media centers. Prereq: LIS 601 and LIS 602 or consent of instructor.

LIS 648 TECHNOLOGY IN THE LIBRARY. (3) Consideration of new and emerging educational technologies that could be integrated into school curriculum. Includes hands-on experience in the design, development, and production of a multimedia presentation in an area related to educational technology and the role of the media specialist in the school curriculum.

LIS 650 TECHNICAL PROCESSING SYSTEMS. (3) A survey of manual and computer-based technical processing systems in libraries. Consideration given to circulation, acquisitions, cataloging and serial control systems. Trends and developments in technical processing, files and records management, and technical processing procedures and activities are examined. Prereq: LIS 602 or permission of instructor.

LIS 653 PRESERVATION MANAGEMENT. (3) Considerations the management of informational and digital preservation with the aim of providing the knowledge and awareness necessary to be able to incorporate preservation principles, concepts, and practices into the daily operation of library and information center management. Includes hands-on experience.

LIS 655 ORGANIZATION OF KNOWLEDGE I. (3) Derivatives and integrals of elementary functions (including the trigonometric functions) with applications. Lecture, three hours; recitation, two hours per week. Prereq: MA 123, 162, 199, 201 and 202. This course does not serve as a prerequisite for any calculus course. Credit not available on the basis of special examination. Prereq: Two years of high school algebra and a Math ACTE score of 23 or above, or consent of department.

MA 109 INTERMEDIATE ALGEBRA. (3) This course is restricted to those who have completed MA 108 with a minimum grade of C, or those who have placed into MA 109 through the Math Assessment. Prereq: MA 112, 123, 162, 199, 201 and 202. Credit not available by special examination. Prereq: MA 112, 162, 199, 201 and 202. This course is not available for credit to persons who have received credit in any mathematics course of a higher number than the exceptions of MA 112, 123, 131, 132 and 162. Credit not available by special examination. Prereq: Two years of high school algebra or MA 108.

MA 113 CALCULUS I. (3) A course in introductory integral calculus, with applications to business, economics, and social sciences. Linear functions and inequalities, matrix algebra, linear programming, probability. Emphasis on setting up mathematical models from stated problems. Prereq: MA 109 or equivalent.

MA 193 SUPPLEMENTARY MATHEMATICS WORKSHOP I: (Subtitle required). (1-2) Laboratory (only) required only to certain mathematics lecture courses. Offered only on a pass/fail basis. Coreq: Set by instructor.

MA 214 GEOMETRY FOR ELEMENTARY TEACHERS. (3) A course in plane and solid geometry designed to give middle school mathematics teachers the knowledge needed to teach a beginning geometry course. Coreq: MA 111 or 112. Credit not available by special examination. Prereq: MA 109 or equivalent.

MA 233 CALCULUS II FOR LIFE SCIENCES. (3) An introduction to integral calculus, integration of logarithmic and exponential functions. Applications to the life sciences including biochemical rates and reaction rates and radioactive decay. An introduction to biological models and their associated differential equations. Prereq: MA 123 or consent of instructor.

MA 235 COMPLEX VARIABLES AND ITS APPLICATIONS. (3) Finite mathematics with applications to business, biology, and the social sciences. Linear functions and inequalities, matrix algebra, linear programming, probability. Emphasis on setting up mathematical models from stated problems. Prereq: MA 109 or equivalent.
MA 310 MATHEMATICAL PROBLEM SOLVING

(3)
Heuristics of problem solving. Practice in solving problems from algebra, number theory, geometry, calculus, combinatorics and other areas. Prereq: For first and second year school teachers. Prereq: MA 123 or MA 113.

MA 320 INTRODUCTORY PROBABILITY.

(3)
Set theory, probability, including combinatorial and marginal probability; random variables and probability distributions (discrete and continuous); expected values and moments; moment generating functions, random experiments; distributions of random variables and functions of random variables; limit theorems. Prereq: MA 213 or equivalent. (Same as MA 322.)

MA 321 INTRODUCTION TO NUMERICAL METHODS.

(3)

MA 322 MATRIX ALGEBRA AND ITS APPLICATIONS.

(3)

MA 330 HISTORY OF MATHEMATICS.

(3)
A survey of the development of mathematics. Topics may include: the historical evolution of the Greek mathematical tradition, the role Age, Euclid and the Alexandrian School, the Renaissance, Fermat and the beginnings of analytic geometry, Leibniz and Newton, the eighteenth and nineteenth centuries: geometry, analysis and set theory. Prereq: MA 321. (Same as CS 340.)

MA 331 CONCEPTS IN GEOMETRY.

(3)
Selected topics in geometry including Euclidean and some non-Euclidean geometries. Prereq: Permission of instructor.

MA 351 ELEMENTARY TOPOLOGY.

(3)
A beginning course, with particular emphasis on point-set topology in Euclidean spaces. Prereq: MA 213 or consent of instructor. (Same as CS 351.)

MA 352 ELEMENTARY MODERN ALGEBRA I.

(3)
A beginning course, with particular emphasis on groups and rings. Prereq: MA 213 or consent of instructor.

MA 361 ELEMENTARY MODERN ALGEBRA II.

(3)
A continuation of MA 351, to include a discussion of metric spaces, completeness, general topological spaces, compactness, connectedness. Prereq: MA 351 or consent of instructor.

MA 362 ELEMENTARY MODERN ALGEBRA.

(3)
A continuation of MA 351 to include a discussion of fields and topics in linear algebra, suitable for a second course in algebra. Prereq: MA 320 or permission of instructor.

MA 375 COMMUNICATING MATHEMATICS.

(3)
A course intended to provide understanding of and experience with contemporary mathematical communication in a modern instructional setting. Primarily intended for mathematics majors but not restricted to prospective school and college teachers of mathematics, including students who may intend to pursue graduate study in a mathematics program and a graduate teaching assistant while pursuing an advanced degree. May not be counted as an upper division mathematics course in mathematics degree programs. Prereq: MA 321 or consent of instructor. (Same as CS 375.)

MA 380 APPLIED MATHEMATICS.

(3)
Topics include: Elementary algorithms, unique factorization modulo arithmetic, Fermat and Euler's theorems, Chinese remainder theorem, RSA encryption, Pollard the p-1 and p+1 algorithms, primality testing, error correcting codes, Hamming codes, polynomial rings and quotient rings, field extensions, finite fields and BCH codes. Prereq: MA 352 or equivalent.

MA 390 APPLIED LINEAR ALGEBRA.

(3)
Review of basic linear algebra from a constructive and geometric point of view. Factoring, linear equations, determinants and vector spaces. Linear algebra is formulated, various solution techniques are introduced, and the mathematical results are interpreted. Fourier analysis, dimensional reduction, regular and irregular optimization, random processes and diffusion are samples of selected topics studied in applications. Introduction to both symbolic and numerical algorithms in mathematics and engineering. Prereq: MA 322 or three hours in an equivalent junior/senior level mathematics course or consent of the instructor. (Same as MA/PHY 350.)

MA 533 PARTIAL DIFFERENTIAL EQUATIONS.

(3)
Elementary existence theorems, equations of first order, classification of second order equations, the Cauchy and Dirichlet problems, potential theory, the heat and wave equations, Green's Functions and separation of variables, systems of equations. Prereq: MA 322 or MA 472G or equivalent.

MA 537 NUMERICAL ANALYSIS.

(3)
Floating point arithmetic. Direct methods for the solution of systems of linear algebraic equations. Polynomial and piecewise polynomial approximation, orthogonal polynomials. Numerical integration: Newton Cotes formulas and Gaussian quadrature. Basic methods for initial value problems for ordinary differential equations. The emphasis throughout is on the understanding and use of software packages for the solution of commonly occurring problems in applied mathematics. Prereq: MA 322 or equivalent. May be repeated to a maximum of 3 hours. Prereq: MA 472G or equivalent. (Same as MA/CS 537.)

MA 550 TOPOLOGY.

(3)
Topological spaces, products, quotients, subspaces, connectedness, compactness, local compactness, separation axioms, convergence. Prereq: MA 351 or consent of instructor.

MA 561 MODERN ALGEBRA.

(3)
Algebraic structures: quotient structures, substructures, product structures, permutation groups, groups, rings, fields, Galois theory, the Jordan-Holder theorem. Prereq: Consent of instructor.

MA 565 LINEAR ALGEBRA.

(3)
Review of basic linear algebra, the rank of a matrix, systems of linear equations, determinants, characteristic and minimal polynomials of a matrix, canonical forms for matrices, the similarity of the ring of linear operators, and the concept of isomorphism. Prereq: MA 322 or equivalent.

MA 570 MULTIVARIATE CALCULUS.

(3)
A self-contained course in n-dimensional analysis, including the line and surface integral, the general form of Stokes' theorem, vector valued functions, and the Jordan-Holder theorem. Prereq: Consent of instructor.

MA 611 INDEPENDENT WORK IN MATHEMATICS.

(3-9)
Reading course for graduate student in mathematics. May be repeated to a maximum of 9 hours. Consent of instructor.

MA 612 RESEARCH IN ENGLISH.

(3)
Research in English. (Same as MA/EN 612.)

MA 613 PROBLEMS SEMINAR.

(3)
For first-year graduate students, familiarity with the mathematical content of the first-year graduate course is a course in linear algebra or consent of instructor.

MA 614 ENUMERATIVE COMBINATORICS.

(3)
An introduction to the basic notions and techniques in enumerative combinatorics. The material has applications to polynomial theory, hyperplane arrangements, computational combinatorial algebra, representation theory and symmetric functions. Topics include generating functions, the principle of inclusion and exclusion, bijections, recurrence relations, partially ordered sets, the Mobius function and Mobius algebra, the Laplace transform, the exponential formula and tree enumeration. Prereq: A graduate course in linear algebra or consent of instructor.

MA 615 COMBINATORIAL NETWORKS.

(3)
Graphs, networks, min-flow max-cut theorems and applications; transportation problems, shortest route algorithms, critical path analysis, minimum spanning trees, planar graphs and Euler and Hamiltonian paths, graph coloring, integer programming, branch and bounding techniques, cutting plane algorithms, computational complexity. Prereq: MA 515, can be repeated to a maximum of 515.

MA 622 MATRIX THEORY AND NUMERICAL LINEAR ALGEBRA.

(3)

MA 623 NUMERICAL METHODS FOR DIFFERENTIAL EQUATIONS.

(3)
Course Descriptions

MA 629 APPLIED MATHEMATICS
INTEGRATION AND YOURthur: (3)

MA 751, 752 SELECTED TOPICS IN TOPOLOGY. (3st.)

MA 761 HOMOLOGICAL ALGEBRA. (3st.)

Half-time to full-time work on dissertation. May be repeated to a maximum of 12 hours.

MA 769 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (0-12)

May be repeated to a maximum of six credits. Prereq: Consent of instructor.

MAT Merchandising, Apparel, and Textiles

MAT 114 INTRODUCTION TO MERCHANDISING. (3)
An introduction to merchandising with emphasis on apparel and textiles. Examination of industry structures which facilitate the development, manufacturing, marketing and merchandising of goods and services in the domestic and international marketplace.

MAT 120 TEXTILES FOR CONSUMERS. (3)
A study of textiles with emphasis on consumer applications. Properties of fibers, yarns, fabrics, and fibers and finishes are analyzed. Use and care of textiles. Laboratory: two hours per week. Prereq: MAT 120 or may be taken concurrently.

MAT 232 APPAREL PRODUCTION STUDIO. (3)
Principles of apparel production for men, women and children. Development of basic construction skills. Studio, six hours. Prereq: MAT 120.

MAT 237 AESTHETIC EXPERIENCE IN RETAIL. (3)
An introduction to design and aesthetic principles as they are applied to retail merchandise and educational settings. Includes methods of visual merchandising, special event promotion and publicity relations. Prereq: MAT 237 or consent of instructor.

MAT 247 DRESS AND CULTURE. (3)
A study of the social, cultural, physical, and psychological factors which influence apparel and apparel use in contemporary society. Focus on three hours in sociology or anthropology, three hours in psychology.

MAT 315 MERCHANDISE PLANNING AND CONTROL. (3)
Study of basic planning and control strategies and processes essential to profitability in merchandising. Analysis of company and industry merchandising and operating results. Prereq: MAT 114, ECO 201, ECO 202, ACC 301 and MKT 300. Acc 301 and MKT 300 may be taken concurrently.

MAT 340 PROFESSIONAL PRACTICE. (3)
An examination of the impact of commerce in the apparel, fashion, and textile industries and the strategies used to ensure success in these areas. Includes study of current trends in the marketplace, marketing, advertising and sales promotions.

MAT 350 PROBLEM SOLVING IN MERCHANDISING. (3)
Study and application of research and creative problem solving in merchandise planning, retailing and textile problems. Problem identification, research methods and evaluation of proposed solutions. Prereq: MAT 114, MAT 120, MAT 237, MAT 247, STA 200, MAT 300.

MAT 359 SPECIAL TOPIC IN MERCHANDISING, APPAREL AND TEXTILES. (Subtitle required). (1-3)
Exploration of topics in the field of merchandising, apparel and textiles. May be repeated up to a maximum of six credits.

MAT 414 MERCHANDISING STRATEGY ANALYSIS. (3)

MAT 425 ECONOMICS OF MERCHANDISING SOURCING. (3)
Examination of global sourcing strategies in retail merchandising. Includes assessment of political, social, economic and cultural influences critical to the sourcing process. Prereq: MAT 114, MAT 120, ECO 201, ECO 202, MAT 300, MKT 320.

MAT 470 INTERNATIONAL MERCHANDISING. (3)

MAT 480 MERCHANDISING, APPAREL AND TEXTILES STUDY TOUR. (1-3)
A domestic or foreign study tour to include investigation of interests related to merchandising, apparel, and textiles. Professional visits are planned according to particular itineraries. Application and payment dates are determined each semester by the instructor. This course may be repeated one time if tour destinations are different. Prereq: Priority is given to majors and upperclassmen. All students are subject to instructor approval.

MAT 491 INTERNSHIP. (0 or 6)
Supervised experiential learning in a cooperative, retail, design, or industrial establishment. Fall and summer semesters. Must be submitted before the semester began. Credit may vary from 0 to 6 hours. Non-majors: three hours in sociology or anthropology, three hours in psychology.

MAT 515 SPECIFICATION AND EVALUATION OF TEXTILES AND APPAREL. (3)
The course will focus on product development and quality control in textile mills (Apparel and Textiles). Includes basic knowledge of dop's and evaluation techniques and examining the quality of a textile product. Prereq: MAT 120, MAT 237, MAT 470.

MAT 520 HISTORY OF TEXTILES. (3)
Survey of the development of textiles from ancient to modern times. Emphasis on social, economic, technological and political effects on the evolution of textile fibers, fabric structures, color and design. Field trips. Prereq: MAT 120 plus six hours in European history, Western culture, or art history.

MAT 570 HISTORY OF TEXTILE MACHINERY. (3)
Development of costume from ancient to modern times with consideration of historic, social, and economic setting. Field trips. Prereq: Six hours in European history, Western culture, or art history, or consent of instructor.

MAT 547 SOCIAL AND PSYCHOLOGICAL ASPECTS OF APPAREL. (3)
An advanced study of the social, psychological factors which influence apparel and apparel use with particular emphasis on research. Prereq: MAT 247 for majors only. Non-majors: Three hours in sociology or anthropology and three hours in psychology.

MAT 559 SPECIAL TOPIC IN MERCHANDISING, APPAREL AND TEXTILES. (Subtitle required). (1-3)
Advanced in-depth study of merchandising, apparel and textiles. May be repeated to a maximum of six credits. Prereq: Senior standing or consent of instructor to registration.

MAT 570 ELECTRONIC RETAILING (E-TAILING). (3)
An educational foundation in e-tail development as a medium for food and textile retailing and wholesale sales. Prereq: MAT 114, 120, 237, 247, STA 200, MKT 320.

MAT 595 INDIVIDUAL STUDY IN MERCHANDISING, APPAREL AND TEXTILES. (1-3)
Problems involving independent laboratory, studio, and/or library study confirming to the student’s special interest under the direction of an appropriate faculty member having proficiency in the area selected. May be repeated to a maximum of six credits. Prereq: Senior standing or consent of instructor and contractual agreement.

MB Microbiology

MB 749 DISSERTATION RESEARCH. (0)
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: MAT 769, MAT 779, MAT 799, and MAT 800. Maximum of two full-time semesters of 769 residence credit following the successful completion of the qualifying exams. (Same as MB 749.)

MB 757 DISSERTATION PROPOSAL. (2)
Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester of the qualifying examination. Submission of two semesters is required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

MB 765 FORMMASTER’S DEGREE. (1-6)
May be repeated to a maximum of 12 hours. (Same as MB 765.)

MB 769 RESIDENCE CREDIT FOR THE DOCTOR’S DEGREE. (3)
May be repeated indefinitely. (Same as MB 769.)

MB A Master of Business Administration

MB 600 RAPID IMMERSION IN ACCOUNTING. (3)
An immersive one-week introduction to key financial and managerial accounting statements in analyzing business problems. Open only to students in the daytime MBA track.
MBA 601 RAPID IMMERSION IN DECISION MAKING. (3) An immersion of key financial and managerial accounting concepts in analyzing business problems. Open only to students in the daytime MBA track.

MBA 602 DECISIONS IN MANAGEMENT. (3) An immersive, largely experiential four-week course designed to help build students’ team work, communication and leadership skills. Open only to students in the daytime MBA track.

MBA 603 MARKETS – STRUCTURE AND DYNAMICS. (1) An immersive one-week course that explore markets. Open only to students in the daytime MBA track. Prereq: MBA 600, 601, 602, 606 and 612.

MBA 604 BUSINESS PROCESSES AND FUNCTIONS. (3) An immersive multidisciplinary course that introduces students to key business functions. Open only to students in the daytime MBA track. Prereq: MBA 600, MBA 601, MBA 602.

MBA 605 ORGANIZATIONAL STRATEGIES AND PROCESSES. (1) An immersive course that explores firm structures, internal allocation decisions, and transitioning decisions from a variety of social science perspectives. Open only to students in the daytime MBA track. Prereq: MBA 600, 601, 602 and 603.

MBA 606 BUSINESS SIMULATION. (1) An experiential-based course that places teams in a business. Open only to students in the daytime MBA track. Prereq: MBA 600, 601, 602 and 603.

MBA 610 NEW PRODUCT DEVELOPMENT. (6) An extensive, multidisciplinary examination of the new product or service development process from ideation to product or service delivery through the launch and post-launch stages. Open only to students in the daytime MBA track. Prereq: MBA 600, 601, 602, 603, 604, 605, 606 and 612.

MBA 611 SUPPLY CHAIN MANAGEMENT. (3) An intensive analysis of the supply chain management and its relationship to manufacturing and management. Open only to students in the daytime MBA track. Prereq: MBA 600, 601, 602, 603, 604, 605, 606 and 607.

MBA 612 MERGERS AND ACQUISITIONS. (5) An extensive, multidisciplinary examination of the mergers and acquisitions process including the political drivers and the synergy that is sought. Open only to students in the daytime MBA track. Prereq: MBA 600, 601, 602, 603, 604, 605, 606, 607 and 608.

MBA 620 RISK MANAGEMENT. (3) An examination of financial decision-making about the management of risk by corporations, with special emphasis on the relationship between risk management and the overall goals of the firm. Open only to students in the daytime MBA track. Prereq: MBA 600, 601, 602, 603, 604, 605, 606, 610 and 611.

MBA 621 NEW VENTURE FINANCE. (3) The advantages and disadvantages of the sources of new venture capital are studied from the entrepreneur’s and the provider’s viewpoints. Open only to students in the daytime MBA track. Prereq: MBA 600, 601, 602, 603, 604, 605, 606, 610 and 612.

ME 310 ENGINEERING EXPERIMENTATION I. (3) An introductory course in measurement and instrumentation emphasizing basic instruments and techniques from the perspective of world languages and cultures. The course will cover depth analysis of a large number of intercultural teaching. Topics may include how to teach in multicultural classes and cultural and cultural differences. Focus will be on methods of teaching in primary and secondary schools. Taught in English. May be repeated to a maximum of six credits. Prereq: Consent of instructor. (Same as MFS 503.)

ME 311 ENGINEERING EXPERIMENTATION II. (3) An introductory course in measurement and instrumentation emphasizing basic instruments and techniques from the perspective of world languages and cultures. The course will cover depth analysis of a large number of intercultural teaching. Topics may include how to teach in multicultural classes and cultural and cultural differences. Focus will be on methods of teaching in primary and secondary schools. Taught in English. May be repeated to a maximum of six credits. Prereq: Consent of instructor. (Same as MFS 503.)

ME 412 ME CAPSTONE DESIGN II. (3) A capstone design project that will develop a project plan concerned with the design of a complex system or system of current interest to mechanical engineers. Lecture, 2 hours per week; laboratory, 3 hours per week. Prereq: Engineering standing. Course may be taken semester immediately following ME 395. Prereq: Consent of department chairperson via permit. (Same as MFS 503.)

ME 440 DESIGN OF CONTROL SYSTEMS. (3) An introduction to the design of control systems with emphasis on nonlinearity and digital control. Prereq: Engineering standing and Bode methods; compensation. Introduction to modern control theory, control systems; transducers, detectors and actuators; types of sensors; control system stability and stability analysis. Prereq: Registration in the College of Engineering and engineering standing. Prereq: Consent of instructor. (Same as MFS 503.)

ME 450 TOPICS IN MECHANICAL ENGINEERING. (1-6) Special research and problems for individual students who wish to pursue advanced scientific and engineering work in the field. May be repeated to a maximum of nine credits. Prereq: Variable, given when topic identified and engineering standing.

ME 461 ME CAPSTONE DESIGN I. (3) First semester of the capstone design sequence in mechanical engineering. Topics include: design process, design methods, considerations of economics, safety and reliability. Students will work in small groups and emphasis will be on original work. Students will develop a project plan concerned with the design of a complex system of current interest to mechanical engineers. Lecture, 2 hours per week; laboratory, 3 hours per week. Prereq: Engineering standing. Course may be taken semester immediately following ME 411. (Same as MFS 503.)

ME 501 MECHANICAL DESIGN WITH FINITE ELEMENT METHODS. (3) Mechanical design techniques based on the finite element method. Course will consist of lectures, plant tours, project discussions, and a final exam. Prereq: Consent of instructor. (Same as MFS 503.)

ME 503 LEAN MANUFACTURING PRACTICES AND PRINCIPLES. (3) This course will consist of lectures, demonstrations, and assignments. Prereq: ME 325 and engineering standing. Course may be taken semester immediately following ME 411. (Same as MFS 503.)

ME 506 DESIGN OF CONTROL SYSTEMS. (3) An introduction to the design of control systems with emphasis on nonlinearity and digital control. Prereq: Engineering standing and Bode methods; compensation. Introduction to modern control theory, control systems; transducers, detectors and actuators; types of sensors; control system stability and stability analysis. Prereq: Registration in the College of Engineering and engineering standing. Prereq: Consent of instructor. (Same as MFS 503.)

ME 507 HEATING, VENTILATING AND AIR CONDITIONING. (3) An introduction to the design of control systems with emphasis on nonlinearity and digital control. Prereq: Engineering standing and Bode methods; compensation. Introduction to modern control theory, control systems; transducers, detectors and actuators; types of sensors; control system stability and stability analysis. Prereq: Registration in the College of Engineering and engineering standing. Prereq: Consent of instructor. (Same as MFS 503.)

ME 510 INTRODUCTION TO MECHANICAL ENGINEERING. (3) The course will cover depth analysis of a large number of intercultural teaching. Topics may include how to teach in multicultural classes and cultural and cultural differences. Focus will be on methods of teaching in primary and secondary schools. Taught in English. May be repeated to a maximum of six credits. Prereq: Consent of instructor. (Same as MFS 503.)
ME 505 MODELING AND MANUFACTURING
PROCESS OPTIMIZATION. (3)
A study of the major manufacturing processes and equipment.
Emphasis on mathematical and computer models of these pro-
cesses, design and analysis of manufacturing and control of
processes. Lecture, two hours; laboratory, two hours. Prereq: EM 302, EM 313, and engineering standing; or graduate standing with
instructor consent. (Same as MFS 505.)
ME 506 MECHANICS OF COMPOSITE MATERIALS. (3)
A study of the structural advantages of composite materials
over conventional ones, including the strengthening and stiffening
stiffness-to-weight ratios. Fiber reinforced, laminated and particu-
late materials are analyzed. Response of composite structures
is studied in order to understand the material, thermal and envi-
ronmental effects of composite. Prerequisites are identified.
Lab Prep: EM 302, engineering standing or consent of instructor.
(Same as MFS 506.)
ME 507 DESIGN FOR MANUFACTURING. (3)
The topics will include fundamentals of concurrent engineering,
product life cycle, product specification, standardization, functional
mechanisms, and the application of rapid prototyping. Prereq:
ME 344 and engineering standing. (Same as MFS 507.)
ME 510 VIBRO-ACOUSTIC DESIGN IN MECHANICAL SYSTEMS. (3)
An introduction to vibrations and noise radiated from systems or
in vibro-acoustic design. The objective is to acquaint the student
with the major applications of such tools in the automotive, aerospace,
and consumer product industries. Prereq: ME 310, ME 340.
ME 512 MANUFACTURING SYSTEMS. (3)
This course introduces students to fundamentals of design, plan-
ing and control of manufacturing systems. Con-
cepts of control hardware, NC programming languages, software
aspects related to NC manufacturing, programmable controllers,
materials handling and manufacturing systems, group technology
and flexible manufacturing systems, etc. will be ad-
ressed. Prereq: Engineering standing. (Same as MFS 512.)
ME 514 FUNDAMENTAL MECHANICAL VIBRATIONS. (3)
The analysis of vibrational motion of structural and mechanical systems. Single-degree-of-freedom systems; free vibrations;
nonlinear vibrations and perturbations; linear vibration excitation.
Modal analysis of multiple-degree-of-freedom systems. Vibration of continuous bod-
ies, including strings and bars (axial, torsional and flexural modes). En-
deavoring students: EM 302, engineering standing or consent of
instructor. (Same as EM 513.)
ME 527 APPLIED MATHEMATICS IN THE NATURAL SCIENCES I. (3)
Construction, analysis and interpretation of mathematical models
applied to problems in the natural sciences. Physical problems
with potential solutions involving specialized topics in applied mathemat-
ics are formulated, various solution techniques are introduced, and the
mathematical results are interpreted. Fourier analysis, dimensionless
analyses, dimensional analysis, and singularity perturbation theory,
random processes and diffusion are samples of selected topics
covered. Emphasis will be placed on the application of continuum
mechanics, science and engineering. Prereq: MA 432G or three hours
of credit in MATH 272G or consent of instructor. (Same as BAE 513.)
ME 530 GAS DYNAMICS. (3)
Consideration of the mass, energy and force balances applied to
continuous media in fluid systems, such as flow, thermal convec-
tion, wave phenomena and one-dimensional gas dynamics. Appli-
cations to duct flows and to jet and rocket propulsion engines. Prereq:
MA 343G or equivalent and engineering standing.
ME 531 FLUID DYNAMICS. (3)
Stress at a point (introduced as a tensor of rank two). Equation of
continuity; momentum, rate of strain tensor, derivation of Navier-
Stokes equation, source-sink flows, motion due to a doublet, vortex
flow, two- and three-dimensional irrotational flow due to a moving
cylinder with circulation, two-dimensional airfoils. Prereq: MA 432G,
MA 433G and engineering standing.
ME 532 ADVANCED STRENGTH OF MATERIALS. (3)
Uniaxial and multiaxial bending of beams, thin plates, stress analysis
of thick-walled cylinders, and rotating discs. Theory of elastic energy,
curved beams, stress concentration, and fatigue. Prereq: EM 302 and engineering
standing or consent of instructor. (Same as EM 531.)
ME 540 AERODYNAMICS OF TURBOMACHINERY. (3)
A course introducing the design of turbomachines (pumps, tur-
bochargers and turbines). Blade element performance (deflection and losses), and models for performance prediction are present. Special
topics may include boundary layer theory, and transonic/diffusion
mechanical considerations. Prereq: ME 321 and ME 330.
ME 549 POWER GENERATION. (3)
Mechanical engineering generation and cogenera-
tion. Thermodynamic analysis of different concepts of powerplants.
Design studies of specific powerplants. Prereq: ME 321 and ME 330.
ME 550 PROCESSING OF POLYMERIC SYSTEMS. (3)
Theory and practice related to the chemical and physical processes
involving polymer systems. Polymer rheology, heat transfer in poly-

ty, wave phenomena and one-dimensional gas dynamics. Applications, materials selection and design of materials. Relation
of properties of constituent materials and those of composite.
ME 556 INTRODUCTION TO COMPOSITE MATERIALS. (3)
Applications, materials selection and design of materials. Relation
between properties of constituent materials and those of composite.
Processing methods for materials and for some structures. Lab

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ME 505 MODERN MANUFACTURING PROCESSES AND MACHINES. (3)
A study of the major manufacturing processes and equipment. Emphasis on design, and design tool-based production control systems. Prereq: ME 302; EM 313, and either standing with instructor consent. (Same as ME 503.)

MFS 507 DESIGN FOR MANUFACTURING. (3)
The topic will cover fundamentals of concurrent engineering. Prerequisite: concurrent engineering. Dr. Zheng. Repeatable to a maximum of six credits. Prereq: ME 302; EM 313, and either consent of instructor or graduate standing with instructor consent. (Same as ME 507.)

MFS 512 MANUFACTURING PROCESSES. (3)
This course introduces students to fundamentals of design, planning, and control of manufacturing systems. Prerequisites: concurrent engineering. Dr. Zheng. Repeatable to a maximum of six credits. Prereq: ME 302; EM 313, and either consent of instructor or graduate standing with instructor consent. (Same as ME 507.)

MFS 554 CHEMICAL AND PHYSICAL PROCESSING OF POLYMER SYSTEMS. (3)
Theoretical and practical aspects of chemical and physical processing of polymer systems. Polymer rheology, heat transfer in polymer flows, polymer property engineering, polymer processing operations and transfer functions, flow instabilities. Prereq: ME 300, CME 425 or ME 325; or consent of instructor. (Same as CME/ ME/SE 554.)

MFS 563 SIMULATION OF INDUSTRIAL PRODUCTION SYSTEMS. (3)
Discrete event simulation and its application to performance analysis of industrial production systems. Topics include concepts for characterizing production systems, approaches to structuring simulation models, simulation in a simulation language, and techniques for computer-aided systems design and control strategies. Prerequisites: Applications to manufacturing, commercial and mining production systems are considered. Prereq: CS 221 or 270, STA 201 or 202, and STA 311, or consent of instructor. (Same as CME/ ME/SE 563.)

MFS 581 QUALITY CONTROL. (3)
The purposes and goals of quality control, economics of quality control, quality control, quality improvement and the probability in quality control and the functions of a quality control/assurance program in a manufacturing setting. Prereq: STA 311, Engineering Statistics, MNE 301 or consent of instructor.

MFS 599 TOPICS IN MANUFACTURING SYSTEMS ENGINEERING. (Subtitle required) (3)
A detailed investigation of a topic of special interest to manufacturing systems engineering such as: computer-aided manufacturing, special topics in robotics, and/or lean manufacturing. May not be repeated under the same or a similar title. Prereq: consent of department. Prereq: MFS 503 Lean Manufacturing Principles and Practices.

MFS 605 SYSTEMS ENGINEERING. (3)
A study of the application of systems analysis techniques to the concurrent design of engineering systems and the overall design of a manufacturing system. Prereq: CME/ME 202, or consent of instructor. Repeatable to a maximum of six credits.

MGT 301 BUSINESS MANAGEMENT. (3)
A study of planning, organizing, and controlling: an interdisciplinary approach to decision-making. Prereq: STA 201, ECO 201, and ACC 202, or consent of instructor.

MGT 340 ETHICAL AND REGULATORY ENVIRONMENT. (3)
This course focuses on ethical issues in business, the nature of the capitalist, the collective and governmental influence on business, and the responsibility of business to society. Topics to be considered include major economic and ethical principles of business. Prereq: STA 291, STA 201, ECO 201, or consent of instructor. Repeatable to a maximum of six credits.

MGT 341 BUSINESS LAW I. (3)
An introduction to the United States legal system and its application to the business community. Topics to be considered include: contracts, agency, commercial paper, and real property. Prereq: Junior standing or consent of instructor.

MGT 390 SPECIAL TOPICS IN MANAGEMENT. (Subtitle required) (3)
Topics in management. Prerequisites: consent of instructor. Repeatable to a maximum of six credits. May not be repeated under the same or a similar title. Prereq: STA 291, STA 201, ECO 201, or consent of instructor. Repeatable to a maximum of six credits.

MGT 395 INDEPENDENT STUDY IN MANAGEMENT. (1-6)
Course designed to accommodate students' independent exploration of issues within the field of management. Prereq: Course placement; and instructor. Repeatable to a maximum of six credits. May not be repeated under the same or a similar title. Prereq: consent of instructor and department chairperson.

MGT 410 ANALYSIS OF ORGANIZATIONAL BEHAVIOR. (3)
The behavior of business organizations and their participants is analyzed in the contemporary language of social psychology, systems, and models. Various theories of the firm are reviewed and behavioral antecedents of organizational behavior analyzed. Prerequisites: consent of instructor. Prereq: MGT 301 or consent of instructor.

MGT 422 WAGE AND SALARY ADMINISTRATION. (3)
Analysis of theory and practice in the administration of compensation. Prerequisites: consent of instructor and department chairperson.
MGT 421 MANAGING EMPLOYEES RELATIONSHIPS (3)
A course directed towards the development of interpersonal skills related to organizing, motivating and leading employees. The emphasis is on organizational behavior, conflict, and employee development.

MGT 430 SERVICES MARKETING MANAGEMENT (3)
The course introduces students to the broad range of problems and issues that are faced in the management of service organizations. Topics covered include service quality, service systems, service innovation, and service delivery.

MGT 491 SMALL BUSINESS MANAGEMENT (3)
Provides an examination of the management of small business entities. Topics include decision making, strategic planning, marketing, and financing.

MGT 495 STRATEGIC MANAGEMENT (3)
Focuses on the development of strategic plans and the implementation of strategic initiatives for organizations.

MKT 600 COMPARATIVE INTERNATIONAL MANAGEMENT (3)
A comparison of management practices in different countries and the role of management in economic development.

MKT 610 GLOBAL MANAGEMENT (3)
The course examines the challenges of managing a business enterprise in multiple business environments.

MKT 622 SALES MANAGEMENT (3)
This course teaches students how to manage and conduct sales transactions.

MKT 630 PROMOTION MANAGEMENT (3)
The course examines the planning and implementation of advertising and other promotional strategies.

MKT 640 LEGAL AND REGULATORY ENVIRONMENT (3)
The purpose of this course is to provide students with an understanding of the legal and regulatory environment facing organizations.

MKT 650 SECTORAL MARKETING STRATEGY (3)
The purpose of the course is to develop students' understanding of the marketing strategies and practices in different sectors.

MKT 660 SERVICES MARKETING MANAGEMENT (3)
This course introduces students to the principles and practices of managing service organizations.

MKT 670 NONPROFIT ORGANIZATIONS (3)
The course examines the unique challenges and opportunities faced by nonprofit organizations.

MKT 680 RESEARCH, DESIGN AND ANALYSIS (3)
Students study research methodology, sample design, data collection and analysis in the context of marketing research.

MKT 700 SEMINAR IN MARKETING MANAGEMENT (3)
A seminar directed towards the basic decision areas of marketing management. Emphasis is on traditional, classic, and contemporary theory as well as current marketing issues.

MKT 710 SEMINAR IN CONSUMER BEHAVIOR (3)
A seminar on consumer behavior. Emphasis is on research methodology and the application of consumer behavior theory.

MKT 720 SEMINAR IN MARKETING THEORY (3)
A seminar on marketing theory and strategy.

MKT 730 SERVICES MARKETING MANAGEMENT (3)
This course introduces management concepts and principles related to service organizations.

MKT 740 RESEARCH, DESIGN AND ANALYSIS (3)
Students study research methodology, sample design, data collection and analysis in the context of marketing research.

MKT 750 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 760 SPECIAL TOPICS IN MARKETING (1-3)
A course that offers students the opportunity to study specialized topics of current interest.

MKT 770 SEMINAR IN BUSINESS ADMINISTRATION (3)
A seminar on business administration and management.

MKT 780 SEMINAR IN MARKETING MANAGEMENT (3)
A seminar on marketing management.

MKT 790 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 800 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 820 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 830 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 840 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 850 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 860 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 870 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 880 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 890 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 900 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 910 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 920 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 930 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 940 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 950 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 960 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 970 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 980 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 990 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 999 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.

MKT 9999 INDIVIDUAL WORK IN MANAGEMENT (1-6)
Students design and conduct an independent study under the direction of a faculty member.
MNG 363 MINE SYSTEMS ENGINEERING AND VALUATION.
(3) Characterization and analysis of mine production systems, including economic, cost, and valuation issues. Includes basic production system concepts, work sampling, standard time modeling, PERT/CPM, engineering economics, mine valuation. Prereq: MNG 332, CHE 105, PHY 231.

MNG 365 MINING INFORMATION SYSTEMS.
(3) Information systems in the mining industry. Includes decision support systems, computer-based systems, and database management systems. Prereq: MNG 291 and computer science course.

MNG 440 ENTR PRINCIPLE OF MINING ENGINEERING.
(3) Individual work on some selected problem in the field of mining engineering. Must be repeated for a maximum of six credits. Prereq: Consent of instructor.

MNG 511 MINE POWER SYSTEM DESIGN.
(3) A study of mine power distribution systems, major power system components, and techniques of power system analysis. Topics include power system components; generation; operation and planning; power transmission; load flow; fault analysis; grounding and harmonic analysis. Prereq: MNG 363.

MNG 575 COAL PREPARATION DESIGN.
(3) Design a coal preparation plant by integrating unit operations provided by certain back-up laboratory experiments. Cost sensitivity analysis of competing design schemes will be determined on a selected coal. Lecture: two hours; laboratory: three hours per week. Prereq: MNG 301 or equivalent, engineering standing.

MNG 580 MINERAL PROCESSING PLANT DESIGN.
(3) Design of mineral processing plants including the associated unit operations; flow-sheet development, unit selection and processing flowsheet; water/waste flow balancing. Prereq: MNG 301, 302; engineering standing.

MNG 699 TOPICS IN MINING ENGINEERING.
(3-24) A detailed investigation of a topic of current interest in mining engineering. May be repeated for a maximum of six credits. Prereq: Approval of the Director of Graduate Studies.

Course Descriptions

MSE 101 MATERIALS SCIENCE ENGINEERING.
(3) Introduction to the materials engineering profession. Professional growth, conduct, ethics, and organizations. Introduction to the techniques of materials engineering.

MSE 201 MATERIALS SCIENCE.
(3) Microscopy, and macroscopic structure as related to the properties of materials with engineering applications. Prereq or concurrent: MA 114 and freshman chemistry.

MSE 325 MATERIALS SCIENCE LABORATORY.
(1) To teach students the basic materials characterization laboratory techniques and demonstrate the difference in properties between different types of materials.

MSE 401G METAL AND ALLOYS.
(3) Properties of different types of metals. Prereq: MSE 201, MSE 301 or related engineering/science senior/graduate level courses with instructor permission.

MSE 403G CERAMIC ENGINEERING AND PROCESSING.
(3) Microstructure of crystalline ceramics and glasses, and role of thermodynamic and kinetic factors in their formation. Effect of microstructure on the mechanical and physical properties. Prereq: MSE 201, MSE 301 or consent of instructor. Engineering standing. (Same as MSE 403.)

MSE 404G POLYMERIC MATERIALS.
(3) Solution thermodynamics; partial molal quantities; ideal and non-ideal solutions; application of thermodynamics to phase equilibria; heterogeneous equilibria; free energy methods; temperature-pressure relationship. Prereq: CME 200 and MSE 201.

MSE 395 INDEPENDENT WORK IN MATERIALS ENGINEERING.
(1-9) Research for undergraduate/graduate students. May be repeated to a maximum of six credits. Prereq: Department major and approval of chairperson.

MSE 401G METAL AND ALLOYS.
(3) Properties of different types of metals. Prereq: MSE 201, MSE 301 or related engineering/science senior/graduate level courses with instructor permission.

MSE 403G CERAMIC ENGINEERING AND PROCESSING.
(3) Microstructure of crystalline ceramics and glasses, and role of thermodynamic and kinetic factors in their formation. Effect of microstructure on the mechanical and physical properties. Prereq: MSE 201, MSE 301 or consent of instructor. Engineering standing. (Same as MSE 403.)

MSE 404G POLYMERIC MATERIALS.
(3) Solution thermodynamics; partial molal quantities; ideal and non-ideal solutions; application of thermodynamics to phase equilibria; heterogeneous equilibria; free energy methods; temperature-pressure relationship. Prereq: CME 200 and MSE 201.

MSE 395 INDEPENDENT WORK IN MATERIALS ENGINEERING.
(1-9) Research for undergraduate/graduate students. May be repeated to a maximum of six credits. Prereq: Department major and approval of chairperson.

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(3) Properties of different types of metals. Prereq: MSE 201, MSE 301 or related engineering/science senior/graduate level courses with instructor permission.

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(3) Microstructure of crystalline ceramics and glasses, and role of thermodynamic and kinetic factors in their formation. Effect of microstructure on the mechanical and physical properties. Prereq: MSE 201, MSE 301 or consent of instructor. Engineering standing. (Same as MSE 403.)

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MSE 403G CERAMIC ENGINEERING AND PROCESSING.
(3) Microstructure of crystalline ceramics and glasses, and role of thermodynamic and kinetic factors in their formation. Effect of microstructure on the mechanical and physical properties. Prereq: MSE 201, MSE 301 or consent of instructor. Engineering standing. (Same as MSE 403.)

MSE 404G POLYMERIC MATERIALS.
(3) Solution thermodynamics; partial molal quantities; ideal and non-ideal solutions; application of thermodynamics to phase equilibria; heterogeneous equilibria; free energy methods; temperature-pressure relationship. Prereq: CME 200 and MSE 201.
MSE 407 MATERIALS LABORATORY 1. (5-6) This lab is designed to demonstrate behavior of polymers, metals, ceramics, and electronic materials. Includes instruction and practice in use of various instruments and equipment, types of experiments, instrument discipline, data reduction, analysis, and interpretation is covered, as well as correct writing of reports. Prereq: MSE 201, 202, 203, 204, plus 281 or 282. (Same as CHE 281 or 282.)

MSE 408 MATERIALS LABORATORY 2. (5-6) This laboratory experiment that illustrates applications of current technology to practical industrial problems and is designed for engineers of all disciplines. Prereq: MSE 201 and EM 302 and Engineering standing.

MSE 402 PHYSICAL METALLURGY OF FERROUS MATERIALS. (4) Relating the properties of ferrous materials to their microstructures, Fe-C alloys, plastic deformation, recovery, recrystallization and grain growth, phase transformation, heat treatments, hardenability, and hardness testing, tempering, thermophysical treatments are discussed from the point of view of material metallurgy principles. Prereq: MSE 401G or consent of instructor, and Engineering Standing.

MSE 404 MATERIALS DESIGN. (3) A multidisciplinary laboratory course with laboratory experiences for students of all disciplines. Prereq: MSE 201 and EM 302 and Engineering standing or consent of instructor. (Same as EM/ME 506.)

MSE 506 MECHANICS OF COMPOSITE MATERIALS. (3) A study of structural advantages of composite materials over conventional, considering high strength-to-weight and stiffness-to-weight ratios. Fiber reinforced, laminated and particulate materials are analyzed. Response of composite structures to static and dynamic loads and environmental effects, and failure criteria are studied. Prereq. EM 302, engineering standing or consent of instructor. (Same as EM/ME 506.)

MSE 535 MECHANICAL PROPERTIES OF MATERIALS. (3) Introduction to theory of crystallographic slip of a single and twinning. Fracture. Prereq. MSE 201, EM 302 and engineering standing or consent of instructor.

MSE 538 METALS PROCESSING. (3) Solidification of molten alloys, fundamentals of metal working, application of metal working theories for forging, rolling, extrusion, drawing and sheet forming. Prereq. Engineering standing.

MSE 544 CHEMICAL PHYSICAL PROCESSING OF POLYMER SYSTEMS. (3) Theory and practice as related to the chemical and physical processing of all types of polymer systems. Heat transfer in polymer flows, polymer engineering properties. Polymer processing operations including extrusion, injection molding, and film extrusions. Prereq: MSE 330, CME 342 or MSE 325; or consent of instructor. (Same as CME/ME/ME 555.)

MSE 550 INTRODUCTION TO COMPOSITE MATERIALS. (3) Applications, materials selection and design of materials. Relation between properties of constituent materials and those of composite. Processing methods for materials and for some structures. Lab focuses on preparation and testing of composite materials and their constituents. Prereq: MSE 201, 301, 203, CME 236, and Engineering Standing, or consent of instructor. (Same as CME/ME 556.)

MSE 561 ELECTRIC AND MAGNETIC PHYSICAL MEASUREMENTS. (3) Study of dielectric and magnetic materials. Topics include dielectric relaxation, conduction and breakdown mechanisms, liquid crystals, ferromagnetism, superconductivity, and magnetic measurement techniques. Prereq: MSE 212 and PHY 361 or EM 401G or consent of instructor. (Same as EEE 561.)

MSE 566 MATERIALS SCIENCE AND MANUFACTURING SYSTEMS AND MANUFACTURING PROCESSES. (3) Study of packaging systems which interconnect, support, power, cool, protect, and maintain electronic components. The course will address systems at the chip, board, and product levels. Topics include design, properties, materials, manufacture, and performance of various packages. Study of component level will proceed familiarly with design software and production equipment and processes.

MSE 585 MATERIALS CHARACTERIZATION TECHNIQUES. (3) This course will provide fundamentals of x-ray and electron beam interactions with solid-state materials. Both elastic and inelastic interactions will be treated, with emphasis on elastic diffraction effects. Prereq: MSE 301 and Engineering Standing, or graduate status or consent of instructor.

MSE 599 TOPICS IN MATERIALS SCIENCE AND ENGINEERING. (Subtitle required.) (1-4) A detailed investigation of a topic of current significance in engineer-

MSE 768 RESIDENCE CREDIT FOR MASTER'S DEGREE. (1-6) May be repeated to a maximum of 12 hours.

MSE 769 RESIDENCE CREDIT FOR DOCTOR'S DEGREE. (0-12) May be repeated indefinitely.

MUC 110 DOUBLE RED MEAKING LAB. (1) This lab is designed for double reds players to learn how to make and Judge correct music. This lab is repeatable to a maximum of eight credits.

MUC 150 CLASS INSTRUCTION IN PIANO. (1) A beginning course in the fundamentals of playing the piano. Lecture, two hours. Prereq: For music majors; others by consent of instructor. Lecture, two hours. Prereq: MUC 150.

MUC 152 CLASS INSTRUCTION IN PIANO. (1) A course in the fundamentals of playing the piano. For music majors; others by consent of instructor. Lecture, two hours. Prereq: MUC 152.

MUC 153 CLASS INSTRUCTION IN PIANO. (1) A course in the fundamentals of playing the piano. For music majors; others by consent of instructor. May be repeated to a maximum of two credits. Lecture, two hours per week. Prereq: for consent of instructor.

MUC 157 CLASS INSTRUCTION IN PERCUSSION INSTRUMENTS. (1) A beginning course in the fundamentals of playing and teaching percussion instruments. Instruction, three hours. Prereq: For music majors only; others by consent of instructor.

MUC 161 CLASS INSTRUCTION IN STRING INSTRUMENTS. (1) A beginning course in the fundamentals of playing and teaching violin, viola, cello and string bass. May be repeated to a maximum of two credits. Prereq: for music majors; others by permission of instructor. For nonstring majors who take this course for two semesters, it may be counted sequentially in the fall semester.

MUC 163 CLASS INSTRUCTION IN WOODWIND INSTRUMENTS. (1) A beginning course in the fundamentals of playing and teaching woodwind instruments. May be repeated to a maximum of two credits. Prereq: for music majors; others by consent of instructor.

MUC 173 PERCUSSION ENSEMBLE. (1) The study of percussion instrument chamber music through performance. May be repeated to a maximum of eight credits. Laboratory, two hours. Prereq: Consent of instructor.

MUC 190 STRING ENSEMBLE. (1) The study of string instrument chamber music through performance. May be repeated to a maximum of eight credits. Laboratory, two hours. Prereq: Consent of instructor.

MUC 191 BRASS ENSEMBLE. (1) The study of brass instrument chamber music through performance. May be repeated to a maximum of eight credits. Laboratory, two hours. Prereq: Consent of instructor.

MUC 192 STRING ENSEMBLE. (1) The study of string instrument chamber music through performance. May be repeated to a maximum of eight credits. Laboratory, two hours. Prereq: Consent of instructor.

MUC 193 STRINGS ENSEMBLE. (1) The study of string instrument chamber music through performance. May be repeated to a maximum of eight credits. Laboratory, two hours. Prereq: Consent of instructor.
MUC 174 UNIVERSITY CHORALE *(1) An auditioned choral ensemble for the study of choral literature, performance, and through participation. Class will meet for five to six rehearsals per week. May be repeated to a maximum of eight credits. Prereq: Audition and consent of instructor.

MUC 176 PIANO ENSEMBLE *(1) Study of piano ensemble chamber music through performance. May be repeated to a maximum of eight credits. Laboratory, two hours. Prereq: Consent of instructor.

MUC 177 GUITAR ENSEMBLE *(1) The study of guitar ensemble music through performance. May be repeated to a maximum of eight credits. Laboratory, two hours. Prereq: Consent of instructor.

LARGE MUSICAL ORGANIZATIONS

MUC 175 JAZZ ENSEMBLE *(1) Study of jazz through performance. May be repeated to a maximum of eight credits. Laboratory, three hours. Prereq: Consent of instructor.

MUC 187 CONCERT BAND *(1) A large concert band primarily for the general student desiring continuation of instrumental music experience. Laboratory, three hours. May be repeated to a maximum of four credits. Prereq: Consent of instructor.

MUC 188 SYMPHONIC BAND *(1) A select band engaged in preparation and performance of a variety of music composed for this medium. May be repeated to a maximum of four credits. Laboratory, four hours. Prereq: Audition and consent of instructor.

MUC 189 WIND ENSEMBLE *(1) The University’s select band for performance of challenging literature in the wind repertoire. May be repeated to a maximum of eight credits. Prereq: Audition and consent of instructor.

MUC 190 MARCHING BAND *(1) Preparation for and performance at University athletic functions, primarily football games. May be repeated to a maximum of four credits. Prereq: Audition and consent of instructor.

MUC 191 ORCHESTRA *(1) Students who have demonstrated the required ability are given an opportunity to study and perform standard orchestral literature. May be repeated seven times for a total of eight credits. Prereq: Audition and consent of instructor.

MUC 192 UNIVERSITY CHORISTERS *(1) Ordinarily for music majors only. Three one-hour meetings per week. May be repeated seven times for a total of eight credits. Prereq: Audition and consent of instructor.

MUC 196 OPERA WORKSHOP *(1) Study of the principles and techniques of opera performance. Laboratory, three hours. Not offered in the summer session. Prereq: Consent of instructor.

MUC 197 MOVEMENT FOR SINGERS *(1) A course to teach movement and coordination of the body for singers. Course will also introduce different styles of movement required for singers in opera and musical theatre. May be repeated to a maximum of eight credits. Prereq: Consent of instructor.

MUC 188 OPERA PRODUCTION PRACTICUM *(1) The study and practice of production techniques through rehearsal and performance preparation. Course may be repeated to a maximum of four credit hours (1 credit hour per semester). Prereq: Consent of instructor.

MUC 510 ADVANCED CHAMBER MUSIC ENSEMBLE *(1) Study of chamber music through performance. May be repeated to a maximum of six credits. Laboratory, two hours. Prereq: Consent of instructor.

MUC 596 OPERA WORKSHOP *(1) Study of the principles and techniques of opera production and direction through class presentation of scenes and complete works. May be repeated to a maximum of six hours. Prereq: Consent of instructor.

MUC 675 JAZZ ENSEMBLE *(1) Study of jazz through performance. Laboratory, two hours per week. May be repeated to a maximum of six credits. Prereq: Audition and consent of instructor.

MUC 699 WIND ENSEMBLE *(1) The University’s select band for performance of challenging literature in the wind repertoire. Laboratory, three hours per week. May be repeated to a maximum of six credits. Prereq: Audition and consent of instructor.

MUC 691 ORCHESTRA *(1) Students who have demonstrated the required ability are given an opportunity to study and perform standard orchestral literature. Laboratory, five hours per week. May be repeated to a maximum of six credits. Prereq: Audition and consent of instructor.

MUC 692 UNIVERSITY CHORISTERS *(1) The course offers students the opportunity to learn and perform the best choral literature in the repertoire. Laboratory, three per week. May be repeated to a maximum of six credits. Prereq: Audition and consent of instructor.

MUC 630 VOCAL COACHING FOR SINGERS *(1) A course to prepare the vocal student for performance in concert, recital, and opera. Materials to be covered include style, performance practices, diction, interpretation, and audition preparation. Course will include preparation of repertoire as well as art song literature. Repertoire suitable for the individual student will be assigned by the voice teacher and prepared in this course by the vocal coach only after the music has been technically prepared by student’s individual voice teacher. May be repeated to a maximum of six credits. Prereq: Permission of vocal coach.

MUC 630 VOCAL COACHING FOR SINGERS *(1) A course to prepare the vocal student for performance in concert, recital, and opera. Materials to be covered include style, performance practices, diction, interpretation, and audition preparation. Course will include preparation of repertoire as well as art song literature appropriate to designated course level. May be repeated to a maximum of six credits. Prereq: Consent of vocal coach.

MUC 650 CONDUCTING *(1) Private instruction in advanced conducting. Prereq: MUS 358 or MUS 364 or MUS 365 or consent of instructor.

MUC 630 VOCAL COACHING FOR SINGERS *(1) A course to prepare the vocal student for performance in concert, recital, and opera. Materials to be covered include style, performance practices, diction, interpretation, and audition preparation. Course will include preparation of repertoire as well as art song literature appropriate to designated course level. May be repeated to a maximum of six credits. Prereq: Permission of vocal coach.

MUC 658 CONDUCTING *(1) Private instruction in advanced conducting. Prereq: MUS 358 or MUS 364 or MUS 365, or consent of instructor.

MUC 730 VOCAL COACHING FOR SINGERS *(1) A course to prepare the vocal student for performance in concert, recital, and opera. Materials to be covered include style, performance practices, diction, interpretation, and audition preparation. Course will include preparation of repertoire as well as art song literature appropriate to designated course level. May be repeated to a maximum of six credits. Prereq: Permission of vocal coach.

MUC 780 CONDUCTING *(1) Private instruction in advanced conducting. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

One-Hour Credit
The following may register for one-hour credit performance courses:
1) Music majors electing a secondary instrument or a major instrument credit by direction of the adviser to fulfill degree performance requirements.
2) Students from other divisions of the University desiring elective credit but not within the approved curriculum and requiring three hours of credit. Each graduate one-hour course may be repeated twice for credit. Each undergraduate one-hour course may be repeated three times for credit.

Two-Hour Credit
The following may register for two-hour credit performance courses:
1) Music majors in the Music Education or B.A. in Music degree programs.
2) Music minors.
3) Graduate students by direction of the adviser.

Each undergraduate two-hour course may be repeated twice for credit. Each graduate two-hour course may be repeated three times for credit.

Three-Hour Credit
The following may register for three-hour credit performance courses:
1) Music majors in the B.M. or M.M. in performance degree programs.
2) D.M.A. students by direction of the adviser.

Each undergraduate three-hour course may be repeated twice for credit. Each graduate three-hour course may be repeated three times for credit. Not offered during the summer session.

Four-Hour Credit
Only graduate students may register for four-hour credit courses. These courses are available only at the 600- and 700-levels. Doctoral students only may register for 700-level credit. Four-hour credit courses may be repeated three times for credit. Not offered during the summer session.

MUS 001 RECITAL ATTENDANCE *(0) The course will consist of attendance at recitals. Each freshman and sophomore student must attend a minimum of 16 concerts per semester (for a total of four semesters), to be chosen from faculty recitals, senior or graduate recitals, concerts by UK ensembles, Tuesday noon student recitals, Chamber Music series, Central Kentucky Concert and Lecture Association, and Gallery Series. One-half hour per week. Grade: P or F.

MUS 100 INTRODUCTION TO MUSIC *(3) A study of the elements of music as they apply to the listening experience. Selected for the nation of opera as well as art song. Emphasis will be placed upon developing an awareness and understanding of musical style and its place in the historical development of music. May not be used to fulfill this course the use of vocal coach.

MUS 171 THEORY-I: ELEMENTARY WRITTEN THEORY *(2) Development of aural responsiveness to all elements of music, and of sight-singing techniques as an aid to music programming and understanding. Prereq: Satisfactory completion of Theory Placement Exam. or concur: MUS 171.
MUS 172 THEORY I. ELEMENTARY THEORY. (2) Development of aural responsiveness to all elements of music, and of sight-singing techniques as an aid to music comprehension and performance. Prereq: MUS 170; preor concur: MUS 171.

MUS 173 THEORY I. ELEMENTARY WRITTEN THEORY. (2) The combination of the work of MUS 171. Lecture, three hours per week. Prereq: MUS 171.

MUS 174 THEORY FOR NONMUSIC MAJORS. (3) An introduction to the Bachelor of Music degree as an organization focusing on music reading, rudiments of pitch, scale, tone, and rhythm, harmonic organization, melodic construction, simple harmonic vocabulary and aural training. Individual composition and improvisation exercises are used to approach much of the material. Ability to read music is not a prerequisite.

MUS 175/TEACHING MUSIC TO CHILDREN. (3) Music from Ancient Greece to the end of the 17th century, as seen against a background of artistic, cultural, religious, and political changes in the world. Emphasis may not be used to fulfill either the University Studies or music history requirements.

MUS 202 MUSIC IN WESTERN CULTURE, 1700-PRESENT. (3) A survey of music from 1700 (Vivaldi, Bach, Handel) to the present, in the context of artistic, cultural, political, and social changes in the Western culture. Music majors may not use this course to fulfill either University Studies or degree requirements.

MUS 203 HISTORY OF MUSIC I. (3) An introduction to the history of music, surveying the Medieval through the Baroque period (approximately 800 - 1750). Required of all music majors. Prereq: For music majors, sophomore standing; non-music majors, consent of instructor.

MUS 206 AMERICAN MUSIC. (3) A history of music in America from c. 1620 to the present. Will require at least one hour outside the classroom each week, with a written report. Prereq: Permission of instructor.

MUS 220 SYMPHONIC MUSIC. (3) A survey of the symphonic repertoire from the Classical through the Romantic period, focusing on musical history within the context of changing social, cultural and political movements.

MUS 231 SURVEY OF VOCAL MUSIC. (2) A survey of the Baroque period: the Art of Song from the Renaissance and choral music from the Baroque to the present. Significant attention will be given to texts and to poets and their influence on music. May be used for MUS 302 and 303 or course to fulfill University Studies or major requirements.

MUS 232 HISTORY AND SOCIOLOGY OF ROCK MUSIC. (2) A history and analysis of rock music from the Baroque through the 20th century. Includes the development of rock music and the techniques of rock musicians.

MUS 235 ELEMENTARY VACAL MUSIC METHODS AND MATERIALS SEMINAR I. (3) Historical and philosophical foundations of music education. Critical evaluation of teaching methods and materials for instrumental music in the elementary and middle schools. Secondary instrumental methods and group teaching. Observations in the public schools with emphasis on the elementary and middle school levels. Prereq: MUS 172 or 173 or consent of instructor.

MUS 236 VOCAL MUSIC METHODS AND MATERIALS SEMINAR I. (3) Comprehensive study of teaching methods and materials for instrumental music in the elementary and middle schools. Secondary instrumental methods and group teaching. Observations in the public schools with emphasis on the elementary and middle school levels. Prereq: MUS 172 or 173 or consent of instructor.

MUS 236 VOCAL MUSIC METHODS AND MATERIALS SEMINAR II. (3) Comprehensive study of teaching methods and materials for instrumental music in the elementary and middle schools. Secondary instrumental methods and group teaching. Observations in the public schools with emphasis on the elementary and middle school levels. Prereq: MUS 172 or 173 or consent of instructor.

MUS 240 INSTRUMENTAL MUSIC METHODS AND MATERIALS SEMINAR I. (3) A continuation of MUS 265 and 267. Intermediate to advanced chamber music performance. Prereq: MUS 266 or consent of instructor.

MUS 241 INSTRUMENTAL MUSIC METHODS AND MATERIALS SEMINAR II. (3) Advanced conducting; emphasis on advanced rehearsal techniques and the practical application of these techniques to both small and large ensembles. Prereq: MUS 263 and 265 or consent of instructor.

MUS 263 STRINGED INSTRUMENTS. (3) A continuation of MUS 263 and 265. Continued intermediate conducting and chamber music. Prereq: Consent of instructor.

MUS 281 MUSICAL THEORIES. (3) A study of the organization and administration of the school instrumental program. Repertoire for secondary schools and orchestra and band with practice in scoring for these instruments. Prereq: MUS 260 or consent of instructor.

MUS 282 VOCAL MUSIC TEACHING IN THE ELEMENTARY GRADES. (3) An introduction to concepts, techniques, and materials for teaching music in the elementary grades.

MUS 283 TEACHING MUSIC IN THE ELEMENTARY GRADES. (3) A basic study of the philosophy and the pedagogy of the Orff Schulwerk method based on the curriculum recommended by the American Orff Schulwerk Association. The study of the organization and administration of the school instrumental program. Repertoire for secondary schools and orchestra and band with practice in scoring for these instruments. Prereq: MUS 260 or consent of instructor.

MUS 284 TEACHING MUSIC IN THE ELEMENTARY GRADES. (3) A basic study of the philosophy and the pedagogy of the Orff Schulwerk method based on the curriculum recommended by the American Orff Schulwerk Association. The study of the organization and administration of the school instrumental program. Repertoire for secondary schools and orchestra and band with practice in scoring for these instruments. Prereq: MUS 260 or consent of instructor.

MUS 285 TEACHING MUSIC IN THE ELEMENTARY GRADES. (3) A basic study of the philosophy and the pedagogy of the Orff Schulwerk method based on the curriculum recommended by the American Orff Schulwerk Association. The study of the organization and administration of the school instrumental program. Repertoire for secondary schools and orchestra and band with practice in scoring for these instruments. Prereq: MUS 260 or consent of instructor.

MUS 286 TEACHING MUSIC IN THE ELEMENTARY GRADES. (3) A basic study of the philosophy and the pedagogy of the Orff Schulwerk method based on the curriculum recommended by the American Orff Schulwerk Association. The study of the organization and administration of the school instrumental program. Repertoire for secondary schools and orchestra and band with practice in scoring for these instruments. Prereq: MUS 260 or consent of instructor.

MUS 290 COURSE DESCRIPTIONS
MUS 571 ORCHESTRATION. (2) A continuation of orchestration. Prereq: MUS 570.

MUS 572 COUNTERPOINT. (3) A study of 16th century contrapuntal techniques and of contrapuntal relationships in common-practice music. Prereq: MUS 273 or equivalent.

MUS 573 COUNTERPOINT. (3) A study of 18th century contrapuntal techniques and of contrapuntal relationships in Romantic and 20th-century music. Prereq: MUS 273 or equivalent.

MUS 574 COMPOSITION. (2) A basic course in original composition and orchestration. Prereq: MUS 371.

MUS 575 COMPOSITION. (2) A continuation of the study of composition and orchestration. Prereq: MUS 574.

MUS 578 ANALYSIS AND STYLE SURVEY. (3) Studies in analytical terminology and methodology; survey of major stylistic practices of Western music. Prereq: MUS 372 or equivalent.

MUS 600 RESEARCH. 1 A course designed to acquaint students with basic techniques and tools used in research. Prereq: MUS 578 or equivalent.

MUS 601 FOUNDATIONS IN MUSIC EDUCATION. (3) An historical survey of thought concerning the place and significance of music in the education of the individual and the group.

MUS 618 RESEARCH METHODS. (3) A survey of basic research techniques and materials in musicology and theory. Prereq: English as a second language of French or German.

MUS 620 ADVANCED VOCAL REPERTORY (Subtitle required). (3) An intensive study of the stylistic and interpretive characteristics of solo vocal music of a specified repertory. May be repeated as desired with different subtitles. Prereq: Graduate standing or consent of instructor.

MUS 622 SYMPHONIC LITERATURE. (3) An intensive study of orchestral literature from the classical period to the present. Prereq: Graduate standing in music or consent of instructor.

MUS 624 CHAMBER MUSIC LITERATURE. (3) An intensive study of chamber music literature from the early Romantic period to the present. Prereq: Graduate standing in music or consent of instructor.

MUS 625 CHORAL LITERATURE. (3) An intensive study of choral literature from the Renaissance period to the present. Prereq: Graduate standing or consent of instructor.

MUS 627 OPERA LITERATURE I. (3) An intensive study of the history and literature of opera from its origins around 1600 through the early Romantic period. Prereq: Graduate standing in music or consent of instructor.

MUS 650 MUSIC EDUCATION WORKSHOP. (1-4) Intensive study of advanced methods and materials in one of the following areas of music education: elementary and general music; the school orchestra; the school band; and the music classroom. Prereq: Graduate standing in music or consent of instructor.

MUS 660 ADVANCED MUSIC EDUCATION METHODS AND MATERIALS (Subtitle required). (3) An in-depth study of specific methodologies and materials and their development in music education. May be repeated for a maximum of 12 credits when identified by different course subtitles. Prereq: Graduate standing or consent of instructor.

MUS 664 MUSIC AND SPECIAL LEARNERS. (3) This course is directed toward developing competencies and understandings relating to non-music and music educational objectives in therapy and education. Prereq: Consent of instructor.

MUS 665 PHYSIOLOGY AND FUNCTIONING OF THE SINGING VOICE. (3) Detailed study of vocal physiology and acoustics of the singing voice. Major historical sources and recent scientific research form the basis of the course. Designed for professional voice teachers and music educators who work with singers. Prior study of acoustics recommended.

#MUS 666 ADVANCED ORFF SCHULWERK. (1-3) For experienced music teachers who already had basic Orff Schulwerk training. This course enables students to advance their musicianship through the Orff materials, and/or do research in Orff Schulwerk. Prereq: MUS 561 – equivalent to Level Two Orff Schulwerk Teacher Training – permission of the instructor.

MUS 667 MATERIALS, TECHNIQUES AND LITERATURE OF VOICE TRAINING. (3) Survey of currently published books, anthologies, and other materials for voice teachers to which voice technique will be examined. Other pertinent literature explored. Prereq: MUS 665.

MUS 670 ANALYSIS OF TONAL MUSIC. (3) An introduction to and exploration of analytical techniques and issues relevant to music since 1800, addressing as well the performance implications of analytical decisions. Prereq: MUS 578 or equivalent.

MUS 672 ANALYSIS OF MUSIC SINCE 1900. (3) An intensive study of analytical techniques and issues relevant to the literature since 1900, addressing as well the performance implications of analytical decisions and issues. Prereq: MUS 670 or equivalent.

MUS 673 ADVANCED ORFF SCHULWERK. (2) May be repeated to a maximum of six credits. Prereq: MUS 575.

MUS 674 PEDAGOGY OF THEORY. (3) Examination of the most significant approaches to music analysis of the 20th century, including Schenkerian analysis, Forte set theory, and others. Prereq: MUS 578 or equivalent.

MUS 675 INTERNSHIP IN THEORY PEDAGOGY. (1) An internship providing pedagogical experience in music theory (written and oral). Internship is conducted under the supervision of a faculty member who is teaching an undergraduate music theory course. May be repeated for a maximum of four credits.

MUS 676 ADVANCED ANALYTICAL TECHNIQUES. (3) Study and research in up-to-date and new analytical techniques of the 20th century, including Schenkerian analysis, Forte set theory, and others. Prereq: MUS 578 or equivalent.

MUS 678 HISTORY OF THEORY. (3) A survey of theoretical approaches employed in the development of musicotheory. May be repeated to a maximum of six credits. Prereq: MUS 678 or equivalent.

MUS 680 BAND HISTORY AND LITERATURE. (3) A study of the development of band literature, from its earliest roots to the present, with emphasis on the period from 1950 to the present. Prereq: Consent of instructor.

MUS 684 MUSICOLOGY, LISTENING MATERIALS AND METHODS. (3) The study of string pedagogy through historical perspectives as it relates to the individual instrument as well as to class instruction. Prereq: Graduate standing in music or approval of instructor.

MUS 690 TOPICS IN MUSICOLOGY (Subtitle required). (3) Investigation of current and historical musical problems in musicology, intensive study of a specific composer, genre, or school of composers. May be repeated to a maximum of six credits when identified by different course subtitles. Prereq: Graduate standing and consent of instructor.

MUS 694 INTERNSHIP IN SACRED MUSIC. (1) An internship is designed to provide practical experience in Sacred Music, including a practical field experience in a sacred setting. The internship is intended and conducted under the supervision of a Sacred Music of Sacred Music faculty supervisor and the on-site coordinator. Students must file a Learning Contract with the School of Music DGS. May be repeated to a maximum of three credits. Prereq: Completion of 12 hours in the MM in Sacred Music program or by consent of instructor.

MUS 695 INDEPENDENT WORK IN MUSIC. (1-3) Study of an individual problem or subject of music education or music education history to be studied under the supervision of a faculty advisor. Prereq: Consent of advisor and approval of instructor. May be repeated to a maximum of six credits. Prereq: Graduate standing in music or consent of instructor.

MUS 700 MEDIEVAL AND RENAISSANCE NOTATION. (3) The study and transcription of the notation of medieval and Renaissance music. and of the various key signs and note tables of the 16th and 17th centuries. Prereq: Consent of instructor.

MUS 702 SEMINAR IN MUSICOLOGY. (3) A seminar which explores diverse musical problems. May be repeated to a maximum of nine hours. Prereq: Consent of instructor.

MUS 703 PROSEMINAR IN MUSICOLOGICAL METHODS. (3) An introductory exploration into the methodologies currently utilized in the field of musicology. Prereq: Consent of instructor.

MUS 705 RESEARCH. (3) A course designed to lead the student in music education to do experimental research in the area of music education. Prereq: MUS 600.

MUS 706 MUSIC LEARNING AND BEHAVIOR. (3) A study of the principles of learning and the application of these principles to providing adequate nutrition to humans. The chemical and physiological approach to nutrition is emphasized. Prereq: BIO 152, CHE 105 or 107. May be taken concurrently.

MUS 707 MUSIC, LITERACY AND READING. (3) An examination of the unique role of music literacy and the development of music literacy in the educational environment. Prereq: Consent of instructor.

MUS 708 MUSICOLOGY AND TEACHING MATERIALS. (3) An introduction to the relationship between music literacy and music education. Prereq: Consent of instructor.

MUS 709 INDEPENDENT WORK IN MUSIC THEORY. (1-3) May be repeated to a maximum of six hours. Prereq: Four to six hours of graduate credit in the area of specialization and consent of instructor.

MUS 748 MASTERS THESIS RESEARCH. (0) Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

MUS 750 DISSERTATION RESEARCH. (1-3) Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.

MUS 750 INDEPENDENT WORK IN MUSIC EDUCATION. (1-3) May be repeated to a maximum of six hours. Prereq: Four to six hours of graduate credit in area of specialization and consent of instructor.

MUS 762 MUSIC IN HIGHER EDUCATION. (3) Historical and comparative studies of the teaching and administration of music in colleges and universities since the Renaissance. Prereq: Consent of instructor. May be repeated to a maximum of 12 credits. Prereq: MUS 618 and MUS 620 or permission of instructor.

MUS 767 DISSERTATION RESIDENCY CREDIT. (1) Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester following the successful completion of the qualifying examination. A minimum of two semesters are required for residency credit. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

MUS 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE. (1-6) May be repeated to a maximum of 12 hours.

MUS 769 RESIDENCE CREDIT FOR THE DOCTOR'S DEGREE. (0-12) May be repeated to a maximum of 12 hours.

MUS 770 PSYCHOLOGY OF MUSIC. (3) A study of the processes of musical thinking and the effects of music on human behavior.

MUS 772 SEMINAR IN THEORY. (3) Individual and group study of theoretical problems and areas of inquiry. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

MUS 780 DIRECTED RESEARCH IN VOCAL LITERATURE. (1-3) An individual directed research course designed for master's degree students. Required for doctoral voice majors; topics assigned at discretion of the instructor; credit in preparation for a dissertation. May be repeated to a maximum of 12 credits. Prereq: MUS 618 and MUS 620 or permission of instructor.

MUS 799 INDEPENDENT WORK IN MUSIC THEORY. (1-3) May be repeated to a maximum of six hours. Prereq: Four to six hours of credit in area of specialization and consent of instructor.
NFS 301 DIETETICS PRACTICE. (1) Advanced practice in dietetics profession including education requirements, career roles and responsibilities. Basic skills needed by the dietitian are reviewed with emphasis on communication, media, nutritional counseling, professional ethics, and emerging nutritional sciences. Prereq: Consent of instructor. (Same as CNU/NS 630.)

NFS 310 EXPERIMENTAL FOODS. (3) Complex integration of the food and the changes resulting from processing and preparation. Experimental study of variations in ingredients and preparation methods on food quality. Design, execution, and presentation of independent research project. Lecture, one hour; laboratory, discussion, one hour; laboratory, three hours per week. Prereq: NFS 204 and CHE 236.

NFS 401 BIOCHEMISTRY. (3) An introductory study of the biochemical basis of nutrition—the physicochemical properties of nutrients and other essential biological substances in physiological and metabolic processes. Prereq: CHE 236 and PGY 206 may be taken concurrently or consent of instructor.

NFS 403 COMMUNITY NUTRITION AND WELLNESS. (3) A study of the physiological changes occurring in the life cycle with applications for counseling purposes on the importance of nutrition to the urologist, gynecologist, geriatrician, general practitioner, and public health professionals. Nutrition in the prevention and treatment of disease and the importance of an adequate diet throughout the life cycle. Prereq: NFS 204 or equivalent course.

NFS 406G SEMINAR IN FOOD AND NUTRITION. (1) Assists in research in selected areas of food and nutrition. May be repeated to a maximum of three credits. Nutritional sciences graduate students may not enroll for credit. Prereq: Senior standing or consent of instructor.

NFS 480 DIETETICS PRE-PROFESSIONAL PRACTICE. (1-6) Practicum experience designed to allow students to use knowledge and skills in assessing, planning, implementing, and evaluating nutrition care in various health delivery systems. Students develop individual care plans to link theory and practice while developing the skills and attitudes essential to practice in the dietetics profession. Placement of experiential settings must have the standing or consent of instructor. May be repeated to a maximum of six credits. Prereq: Consent of instructor and senior status in the Dietetics Didactic Program.

NFS 510 ADVANCED NUTRITION. (3) Application of biochemistry, physiology and nutrition to the understanding of the utilization and function of nutrients in the body as related to their role in the structure, function and metabolic needs of cell/organs systems. Dietetic students must take NFS 511 concurrently with NFS 510. Prereq: NFS 311 or BCR 4014 or equivalent.

NFS 513 ADVANCED THERAPEUTIC NUTRITION. (2) Study of nutritional care in advanced therapeutic nutrition, including trauma, external and internal parenteral nutrition. Content includes case study evaluations, nutritional therapies for disease conditions and counseling the dietetic child. Prereq: NFS 511.

NFS 515 NUTRITION MANAGEMENT. (3) Changes in nutrient metabolism related to biochemical and physiological alterations in disease conditions and development of therapeutics. Prereq: NFS 311, NFS 312, and concurrent enrollment in NFS 510.

NFS 513 ADVANCED THERAPEUTIC NUTRITION. (2) Study of nutritional care in advanced therapeutic nutrition, including trauma, external and internal parenteral nutrition. Content includes case study evaluations, nutritional therapies for disease conditions and counseling the dietetic child. Prereq: NFS 511.

NFS 515 NUTRITION MANAGEMENT. (3) Changes in nutrient metabolism related to biochemical and physiological alterations in disease conditions and development of therapeutics. Prereq: NFS 311, NFS 312, and concurrent enrollment in NFS 510.

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NRC 320 DATA COLLECTION TECHNIQUE. (3) A field-oriented course taught as a three week summer camp at the Robinson Forest. Emphasis is placed on methodologies for data collection necessary to evaluate a variety of ecosystems on forest land, agricultural lands, and urban land. Students will become familiar with sampling instrumentation, collection, preservation, analysis and data interpretation. Lecture, 10 hours; laboratory, 30 hours per week for three weeks. Prereq: BIO 150, 151, 152, 153; CHE 105.

NRC 330 NEPA COMPLIANCE. (3) This course has been created by Federal Agencies' compliance activities associated with the National Environmental Policy Act. Implementing regulations issued by the Council on Environmental Quality and guidelines for NEPA compliance issued by various agencies will comple- ment the foci for this course. Prereq: NRC 301 or consent of instructor.

NRC 330 ANALYSIS OF NATURAL RESOURCE SYSTEMS. (3) An intermediate course that teaches the analysis of complex natural resource systems with emphasis on the single-
tific basis of such systems, but including interactions with social factors. Prereq: NRC 301.

NRC 331 NATURAL RESOURCE POLICY ANALYSIS. (3) Using an integrative systems approach, this course will generate a holistic framework of policy analysis related to natural resource preservation and management. Major integrative themes in this course will be economics, government, institutions, social, psychological, cultural and other human systems. Prereq: NRC 301 (not exceptions made).

NRC 335 INDEPENDENT STUDY IN NATURAL RESOURCES. (1-6) Study and independent work on selected problems related to conserva-
tion and management of natural resources. May be repeated to a maximum of six credits. Approval of appropriate instructor.

NRC 399 EXPERIMENTAL EDUCATION. (1-6) A field-based learning experience in natural resources under the supervision of an instructor. May be repeated to a maximum of six credits. Consent of instructor and department chair, and completion of a learning contract.

NRC 420 TAxOMONY OF VASCULAR PLANTS. (4) A survey of the identifying characteristics and evolutionary rela-
tionships among groups of vascular plants, concentrating on important families for natural resources utilization in selected parts of eastern North America. Students will gain experience in species identification and the use of important keys and references of field botany. Lecture, 12 hours; laboratory, three hours; plus two Saturday field trips. Prereq: BIO 150, 151, 152 and 153, or one in introductory botany or consent of instructor. (Same as SNS 420G.)

NRC 545G BIOCHEMISTRY. (3) A course emphasizing the physical, chemical, and biochemical functions of natural and constructed wetlands as water purifiers. Principles and mechanisms of the purification pro-
tocess, design, construction, operation and management crite-
ria for efficient usage. Case studies and construction problems of con-
structed wetlands on mining, agricultural, industrial and municipal wastewater treatment applications. Two all day field trips are required. Prereq: PLS 366 or consent of instructor. (Same as PLS 454G.)

NS Nutritional Sciences

NS 601 MACRONUTRIENT METABOLISM. (4) Emphasis will be on macronutrient assimilation and utilization and will include lectures, discussions and student presentations related to energy balance and body composition and the relationship to health maintenance. This course integrates biochem-
istry, physiology and nutrition with regards to macronutrient me-
tabolism. Prereq: CHE 101G, 601, or consent of instructor. (Same as CHE 601.)

NS 604 LIPID METABOLISM. (3) Emphasis on factors influencing the absorption of fats and fatty acids, distribution of fats in the body, factors that disturb the biosynthesis of and catabolism of fatty acids, as well as choles-
terol, bioactive eicosanoids production and the involvement of fats in the disease process. A problem-based, approach with incorporation of student presentations, three hours per week. Prereq: NS/CNU 501, BICH 402G and CHE 412G or consent of instructor. (Same as CHE 604.)

NS 605 WELLNESS AND SPORTS NUTRITION. (3) Emphasis is directed toward nutrition as applied to prevention of disease through lifestyle management and the application of nutri-
tion in exercise and sport. Targeted focus areas are: body composi-
tion and energy expenditure, the metabolic basis of weight manage-
ment, nutrition and lifestyle, the lifecycle, the lifestyle changes associated with obesity, behavioral management of obesity, nutrient metabolism and exercise, or the interplay of body weight balance during exercise, nutritional ergogenic aids, nutrition-strength and perfor-
mance enhancement. Prereq: CHE 102G, and BICH 410G or equiva-
 lent or consent of instructor. (Same as CNU/NSP 605.)

NS 606 MOLECULAR BIOLOGY APPLICATIONS IN NUTRITION. (3) Focus will be on the role of the genome recently developed techniques and model systems in molecular biology for studying nutrient regulation of gene expression. Examples include current problems in nutrition research including assessing contaminating more

-desirable nutrient sources (fats); for studying effects of various nutrients in transgenic mice on tumor suppressor genes and oncogene expression, that are important in cancer prevention; and for studying nutrient effects on genes that modulate obesity. Prereq: BICH 501G and 502G or equivalent, or BICH 412G and consent of instructor. (Same as CHE 606G.)

NS 607 FOOD RELATED BEHAVIORS. (3) This team-taught course will provide background in topics and

-methodologies related to Food Science and Nutritional Sciences, and other interested students. The course will follow a problem-

-based learning approach, and will consist of three 4 modules in any given year. Students will prepare a Written Case Presentation Perspec-
tives on Food, Psychological Perspectives on Food and Food Behav-

iours, Challenges to Consensus Development in International Issues in Nutrition. (Same as AN 607, NPS 607, BSC 667.)

NS 608 NUTRITIONAL IMMUNOLOGY. (3) Theories and mechanisms of immunity will be introduced. The effects of nutrition on immunity will be discussed from experimental and clinical perspectives. A lecture and problem-based learning approach with incorporation of student presentations, three hours per week. Prereq: CHE 412G and CHE 601, or consent of instructor. (Same as CHE 608G.)

NS 609 ETHICS IN CLINICAL SCIENCES RESEARCH. (1) Students will be exposed to the ethical aspects of biomedical research such as the case-study approach. Representative issues addressed may include data selection and presentation, confidentiality of grants and manuscripts, scientific misconduct, and informed consent. Prereq: Graduating senior status. (Same as CHE 609.)

NS 620 NUTRITION AND AGING (2) Emphasis on current issues in nutrition and aging, nutrition needs of the elderly and nutrition-related diseases associated with aging. Prereq: NS/CNU 501, BICH 411G or consent of instructor. (Same as NSP 620.)

NS 630 ADVANCED COMMUNITY NUTRITION. (3) Study of nutrition surveys and of bases for judging community nutrition. Emphasis is placed upon economic, geographic and social factors in the determination of nutritional needs. Experience is given in develop-
ment of nutrition programs. May be repeated to a maximum of six credits. Prereq: NS/CNU 501, BICH 412G, or consent of instructor. (Same as CHE 630.)

NS 640 HUMAN NUTRITION: ASSESSMENT. (3) Assessment of dietary, anthropometric and biochemical par-

-eters of nutritional status in health and disease. Lecture; two hours; laboratory, three hours per week. Prereq: NPS 510, NPS 511 or equivalent. (Same as NPS 640.)

NS 651 TOPICS IN NUTRITIONAL SCIENCES. (2) Faculty from different disciplines will provide in-depth coverage of selected topics in nutritional sciences as related to health and disease, e.g. nutrition and gastrointestinal diseases, obesity, drug-nutrient interactions. Prereq or concur: six credit hours from ASC 681, 683, 687, NSF 565, NSF/CNU 560, or consent of instructor.

NS 652 TOPICS IN NUTRITIONAL SCIENCES. (2) Faculty from different disciplines will provide in-depth coverage of selected topics in nutritional sciences as related to health and biologi-
-cal functions (e.g. nutrition and exercise, stress, and environmental interactions). Prereq or concur: six credit hours from ASC 681, 683, 687, NSF 565, or consent of instructor.

NS 655 GEOGRAPHIC INFORMATION SYSTEMS AND LANDSCAPE ARCHITECTURE. (3) An introduction to the concepts and methods of compilation, man-
agement, analysis, and display of spatially-referenced data. Lect-
ures were given by Canadian government, universities, and industry experi-
ci test. Lecture; two hours, laboratory, four hours per week. Prereq: Fourth/fifth year LA major, junior/senior, or graduate student. CS 101, FOR 202A or GEO 451, or permission of instructor. (Same as LA 855.)

NUR Nursing

NUR 510 OLDER WOMEN AND THEIR HEALTH. (3) This course is designed to increase the awareness and understanding of health issues among the aging among older women. Issues including social and cultural norms, political policies and utilization of health care resources are an important part of this course. Prereq: Upper division or graduate standing. (Same as HSI 510.)

NUR 512 COMPLEMENTARY/ALTERNATIVE AND INTEGRATIVE HEALTHCARE. (3) Using a holistic approach to wellness, this course is an overview of alternative and complementary health care practices. Alternative methods that reflect use in a number of other cultures will be explored as complementary to the traditional west-
ern style of medicine which is used almost exclusively in this coun-
try. Prereq: Junior level. Consent of instructor for students outside the health professions.

NUR 513 PUBLIC HEALTH NURSING. (3) Functions, principles and roles of the public health nurse. Emphasis will be on the role of the public health nurse in the communities in which nurses practice. Prereq: Consent of instructor.
NUR 514 ADVANCED HEALTH ASSESSMENT. (3) This advanced course focuses on assessment, care planning, and skill development opportunities for advanced practice nursing practice. It includes intensive work on the principles of disease, health care delivery, and related sciences to understand social, cultural, economic, and political issues in the health care environment. Legislative and regulatory perspectives of risk taking behavior and its health consequences across the lifespan. Fundamental risk concepts about individual, family, and community are examined. Nursing therapeutics are explored for their effectiveness in preventing and/or ameliorating the health consequences of disease and their families. Prereq: Graduate standing. Emphasis is placed on the use of research and theories from biological, behavioral, and advanced practice nursing to facilitate the comprehensive care of chronically ill patients and their families. Prereq: MHA students admitted to Graduate Certificate in Nursing Studies; pre or co req: NUR 603, 631, 652 and 653 for students enrolled in graduate program in Nursing, or consent of instructor.

NUR 707 ACUTE AND CRONIC ILLNESS NURSING PRACTICE. (3) This course focuses on the role of the acute care nurse practitioner in assessing, diagnosing, and managing acute and critical illnesses in the chronically ill adult. Emphasis is placed on the use of research and theories from biological, behavioral, and advanced practice nursing to facilitate the comprehensive care of critically ill patients and their families. The clinical focus of this course is on the care of critically ill adults in high acuity environments. The emphasis is placed upon students becoming a collaborative member of the health care team and incorporating evidence-based practice with experienced and novice clinicians. Prereq: Graduation 672; coreq: NUR 725, 736 and 652 for students enrolled in graduate program in Nursing, or consent of instructor.

NUR 708 MEASURING AND DOCUMENTING NURSING PRACTICE. (4) This course provides the knowledge and skills essential for advanced practice nurses to effectively document an approach to collecting information related to nursing practice provides nurses with opportunities to substantiate their contributions to advanced practice nursing, document patient and nursing outcomes, evaluate and their critical illness and their families. The clinical focus of this course is on the care of critically ill adults and their families. Prereq: NUR 632, NUR 707.

NUR 712 ADVANCED PARENT-CHILD SEMINAR. (3) The student will focus on evaluation of relevant beliefs, concepts, and theories of child development and family processes from preconception through adolescence. Using evidence-based literature, the student will explore physiologic, psychosocial, cognitive, behavioral, and developmental psychosocial and cultural issues for their relevance in providing innovative approaches to family health care. Attention will be directed toward economic, ethical, cultural, legal, political, and geographic factors that influence health behavior and care delivery. Family and child developmental theories will be used as an integrating framework. Prereq: MHA students admitted to Graduate Certificate in Nursing Studies; NUR 601 and 602 for students admitted to graduate nursing program, or consent of instructor.
NUR 714 ADVANCED NURSING CARE FOR FAMILIES, PRE-CONCEPTION THROUGH ADOLESCENCE. (4-5) Emphasis will be placed on understanding diagnostic, preventive, and anticipatory guidance related to the development, health, and health care needs of individuals and families from pre-conception through adolescence. Students will be required to complete an assigned number of sessions each semester under the supervision of a preceptor. Prereq: Consent of instructor.

NUR 769 RESIDENCE CREDIT FOR THE DOCTOR’S DEGREE. (1-6) May be repeated to a maximum of 12 hours. Prereq: Consent of instructor.

NUR 776 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (1-6) May be repeated to a maximum of eight credits. Prereq: Consent of instructor.

NUR 778 INDEPENDENT STUDY IN NURSING. (1-5) An elective course which gives the student an opportunity to engage in a topic of special interest. May be repeated to a maximum of eight credits. Prereq: Admission to graduate program in nursing or consent of instructor.

NUR 790 KNOWLEDGE DEVELOPMENT IN NURSING. (3) This course focuses on the nature of nursing science and on approaches to the development of knowledge for use in nursing practice. Concepts and theories from philosophy of science and research methodology will be used in the process of knowledge development in nursing. Emphasis is placed on the role of logical analysis and critical thinking in the development of knowledge and in providing the foundation for evidence-based practice. Prereq: Consent of instructor or enrollment in the doctoral program in nursing.

NUR 791 QUALITATIVE METHODS IN NURSING RESEARCH. (3) This course focuses on the exploration of qualitative approaches to developing clinical nursing research. The relationship of data collection and analysis strategies to undertakings such as hypothesis testing, and research goals are considered. Applications of qualitative methods to research questions relevant to nursing science are explored. Prereq: NUR 790 or consent of instructor.

NUR 792 QUANTITATIVE METHODS IN NURSING RESEARCH. (3) This course focuses on the application of quantitative research designs and methods for testing hypotheses in clinical nursing research. Students develop skills in critical evaluation of both inter- and intra-disciplinary research and the identification and control of competing hypotheses in quantitative research. Prereq: NUR 791 or consent of instructor; STA 570. NUR 570 STATISTICAL ANALYSIS OF DATA (4) This course focuses on measurement issues in conducting nursing research. Students develop skills in critical evaluation of both inter- and intra-disciplinary research and the identification and control of competing hypotheses in quantitative research. Prereq: NUR 791 or consent of instructor; STA 570. NUR 570 STATISTICAL ANALYSIS OF DATA (4) This course focuses on the application of a variety of analysis strategies to existing datasets. Students will identify hypotheses and/or research questions, test appropriate statistical methods for data analysis, and interpret the results of statistical analyses. Students will also gain experience in the presentation of statistical findings via written and oral formats. Prereq: STA 671 or equivalent, doctoral standing, and consent of instructor.
NUR 824 CLINICAL DECISION MAKING IN NURSING. (4) The focus of this course is methods for making clinical decisions. Emphasis will be on how to collect and utilize data in formulating justifiable decisions. Prereq: Admission into the College of Nursing. May be repeated for credit with topic change: NUR 833 and NUR 834. 

NUR 826 CLINICAL DECISION MAKING IN PEDIATRIC NURSING. (4) This course emphasizes clinical decision making with families, clients, and groups experiencing complex or multiple problems while providing care to children. Emphasis is on interpreting and using complex patterns of data in making decisions about patient care in children of various ages. Lecture, six hours per week. Prereq: NUR 824. Coreq: NUR 835, NUR 837. 

NUR 831 BIOLOGICAL CONCEPTS: THREATS TO HUMAN HEALTH. (2) This course presents fundamental biological concepts basic to nursing practice. Concepts essential for understanding major health problems which occur across the life span and that are encountered in multiple health care settings are discussed. Prereq: Junior year standing in the College of Nursing; coreq: NUR 832, NUR 834 for non-RN students. 

NUR 833 EPIDEMIOLOGIC CONCEPTS FOR PUBLIC HEALTH. (1) This course is an introduction to epidemiologic concepts and interdisciplinary applications to health care of aggregates; structure of the community as it relates to access and utilization of available resources; structure of the health care system; levels of prevention; leading causes of death; social and economic factors affecting health. Laboratory, six hours per week. Prereq: NUR 824 or coreq: NUR 835, NUR 837. 

NUR 861 PATHOPHARMACOLOGY I. (3) This course will provide didactic and clinical experiences that enable the student to study the interactions between the human body and drugs. This course provides basic knowledge of drugs, their effects, and mechanisms of action; and an understanding of the diverse problems that can arise when taking medications. Students will study the pharmacology of the major organ systems. Lecture, three hours; laboratory, nine hours per week. Prereq: NUR 861, BCLS Certification, required immunizations, or consent of instructor. Co-req: NUR 886, NUR 864. 

NUR 864 PATHOPHYSIOLOGY. (3) This course provides basic concepts related to the physical and chemical basis of human functioning. Emphasis is placed on the development of critical thinking skills related to the content. In addition, students will develop the ability to interpret and organize information in the context of health and disease. Lecture, five hours; laboratory, nine hours per week. Prereq: NUR 861, BCLS Certification, coreq: NUR 864. 

NUR 866 PATHOPHARMACOLOGY II. (3) This course is the first of a two semester course sequence that addresses pathopharmacologic and pharmacologic concepts basic to nursing practice. Prereq: ANA 209, PGO 206, NUR 861. 

NUR 869 INTRODUCTION TO NURSING PRACTICE: CARING FOR PEOPLE. (3) This course introduces the baccalaureate student to the concepts of health and physical assessment, health promotion and therapeutic communication. Students will develop skills in caring for individuals of all ages. This course prepares students to work independently, make sound clinical decisions, and adapt to changing health care environments. This course provides an opportunity for the student to investigate career options and for the instructor to identify the student's interest and aptitude. Prereq: Junior year standing in the College of Nursing; coreq: NUR 832, NUR 834 for non-RN students. 

NUR 873 MENTAL HEALTH CONCEPTS. (2) This course provides theoretical perspectives on family functioning throughout the lifespan. The focus will be on the developmental stages of family systems as defined by social, cultural, economic, and political factors. Family assessment, promotion of health in families, and resources for referral will be emphasized. Prereq: Junior year standing in the College of Nursing; coreq: NUR 832, NUR 834. 

NUR 879 NURSING RESEARCH. (3) The philosophy, rationale, and methodological basis for applying nursing research to clinical practice. Skills necessary for participating in the use of nursing research are addressed. Legal and ethical considerations of the research process are discussed. Senior year standing in the College of Nursing; coreq: NUR 832, NUR 834. 

NUR 881 ISSUES IN NURSING. (2) The course focuses on the analysis of the emerging issues and problems affecting nursing and their impact on health care. The responsibilities of the individual practitioner and of the professional are examined. Prereq: Junior year standing in the College of Nursing or consent of the instructor. 

NUR 883 NURSING ETHICS. (3) The course will provide challenging readings and case studies to use decision-making processes to explore viable options to ethical dilemmas confronted in nursing practice. Delineation of facts and principles of the ethical questions will be developed by the student in advance of each class in order for them to select a particular stance which they will then be prepared to defend. Prereq: Senior standing in the College of Nursing. 

NUR 886 LEADERSHIP MANAGEMENT IN NURSING. (5) This course is designed for the student to demonstrate management and leadership skills related to the performance of the management and clinical decision-making. Lecture, three hours; laboratory, six hours per week. Prereq: Senior standing in the College of Nursing. 

NUR 887 ADVANCED CONCEPTS IN PROFESSIONAL NURSING. (4) This course provides students with the knowledge and skills that will enable students to become acclimated to a self-directed learning environment and to develop skills pertinent to advanced concepts of professional nursing practice which are necessary for professional practice. The course content includes: professional writing, the efficient use of computers to enhance nursing practice, the performance of effective patient teaching, and the judicious use of technology to improve quality of care. Prereq: Admission to Nursing BSN program. 

NUR 888 ADVANCED CONCEPTS IN PROFESSIONAL PRACTICE. (2) Enable nursing students to develop skills for student success. Discover nursing as a discipline in historical and emerging contexts of today’s healthcare environment. Prereq: Admission to professional programs in the College of Nursing. 

NUR 881 FAMILY HEALTH PROMOTION AND COMMUNITY HEALTH NURSING. (3) This course introduces the baccalaureate student to the concepts of health and physical assessment, health promotion, and therapeutic communication in the context of family and community health in individuals and families across the life span. Lecture, five hours; laboratory, nine hours per week. Prereq: Admission to the College of Nursing. COMP 193, PSY 191, ANA 209, NUR 831. First Aid Certification, and Basic Cardiac Life Support Certification (BCLS), required immunizations, or consent of instructor. 

NUR 882 SPECIAL TOPICS IN NURSING. (1-3) Study and analysis of current and topical problems and issues in nursing. Directed by a faculty member with expertise in the topic under study. May be repeated to a maximum of 18 credits. Prereq: Admission to the College of Nursing. 

NUR 883 PUBLIC HEALTH NURSING. (5) This course provides students with skills in applying health promotion and disease prevention frameworks and in using epide miological and public health concepts to deliver nursing care with diverse populations in a variety of settings. Emphasis will be placed on the effect of changing health care delivery systems on nursing practice. Lecture, three hours; clinic, six hours per week. Prereq: NUR 872, NUR 873, HBS 241, BCLS Certification, required immunizations, or consent of instructor. 

NUR 884 CAREER MANAGEMENT IN NURSING. (2) This course provides students with the skills and knowledge for career development and success in nursing. Prereq: NUR 880, NUR 881, NUR 883 or consent of instructor. Co-req: NUR 885. 

NUR 885 RISK AVOIDANCE IN NURSING. (2) This course emphasizes critical thinking and data analysis skills in the nursing management of patients with complex health problems and with unpredictable outcomes. Emphasis will be placed on effective communication and decision making in clinical settings. Students will learn to identify and manage potential problems that place patients and health care professionals at risk for errors. Lecture, two hours; laboratory, five hours per week. Co-req: NUR 884. 

NUR 886 SYNTHESIS OF CLINICAL KNOWLEDGE FOR NURSING PRACTICE. (2) This course was designed to provide opportunity to develop independence and competence in applying principles of care management and leadership to nursing practice in a variety of clinical settings. Lecture, one hour; clinic, 15 hours per week. Prereq: All other courses in the curriculum, BCLS Certification, required immunizations, or consent of instructor. Co-req: NUR 884, NUR 885. 

NUR 889 ELECTIVE STUDY IN NURSING. (1-4) An independent study project investigating an area of interest under the direction of a faculty member. May be repeated to a maximum of four credits. Prereq: Approval of sponsoring instructor and the director of the Division of Graduate Nursing. 

NUR 900 PROCESS OF NURSING LEADERSHIP. (3) Students synthesize theoretical leadership concepts with personal and professional values and gain an appreciation for the changing sociocultural context in which clinical leadership is practiced. Issues of power, creativity, innovation, ethics and gender concerns are addressed. Self-reflection is used to develop interpersonal skills that enhance leadership. Lecture, two hours; laboratory, two hours per week. Prereq: Admission to the DNP or Nursing Management specialty track in the MSN program. 

NUR 901 NURSING LEADERSHIP THROUGH EFFECTIVE USE OF SELF. (3) Building these skills develops the characteristics of the Leadership for Nurses Executive course, students focus on leading multiple constituencies. Within a clinical context, working with multiple disciplines and stakeholders, communication, negotiation, conflict management, public speaking, business etiquette, and media training are addressed. Lecture, two hours; laboratory, four hours per week. Prereq: NUR 900. 

NUR 902 NURSING LEADERSHIP IN HEALTH CARE SYSTEMS. (3) Students develop innovative approaches to complex issues in health care system. Creating shared visions, advocacy, strategic planning, and change management are addressed. Lecture, two hours; laboratory, four hours per week. Prereq: NUR 901. 

NUR 903 APPLIED BIOSTATISTICS FOR OUTCOME EVALUATION. (4) This course provides opportunities for the application of a variety of quantitative analysis strategies in the evaluation of clinical outcomes. Statistical methods such as multiple regression, logistic regression, survival analysis, and cost-effectiveness analysis are discussed. Students apply these methods in the analysis of existing outcome data. Prereq: STA 500. 

NUR 904 EPIDEMIOLOGY APPLIED TO THE DESIGN AND EVALUATION OF NURSING AND HEALTH SERVICES. (3) This course provides an overview of statistical and clinical nurse leaders need a conceptual orientation and the knowledge of techniques from epidemiology. They need to know the methods and tools that are used in clinical research. Prereq: STA 500 or consent of instructor. 

NUR 905 CLINICAL PROGRAM DEVELOPMENT AND EVALUATION. (3) This course provides students with the tools to conduct strategic analysis and planning for nursing and health care programs, and to develop and implement health care programs. Students evaluate the choice of program planning models and analyze the implications of implementation and change theory for program operationalization. Emphasis is on a broad theoretical framework for recognizing needs and on effective clinical program implementation within integrated care delivery systems. Prereq: NUR 904 or consent of instructor. 

NUR 906 CLINICAL PROGRAM EVALUATION OF CLINICAL PRACTICE AND OUTCOMES. (3) This course provides students with the tools to evaluate the impact of clinical programs and outcomes. Students analyze the clinical outcomes of program evaluation for improvements in clinical outcomes, efficiency, resource allocation, and cost reduction. Prereq: NUR 905.
OR 526 PROBABILITY. (3) Sample space, random variables, distribution functions, conditional probability and independence, expectation, comparison, combinatorial analysis, generating functions, convergence of random variables, characteristic functions, laws of large numbers, central limit theorem and its applications. Prereq: MA 213 and MA 322. (Same as STA 524.)

OR 525 INTRODUCTION TO STATISTICAL INFERENCE. (3) Simple Random samples and sampling distributions for normal populations; concepts of risk and loss functions; Bayes and minimax inference procedures; point and interval estimation. Prereq: OR 524. APST 240 (or STA 240) or consent of instructor. (Same as STA 525.)

OR 624 APPLIED STOCHASTIC PROCESSES. (3) Definition and classification of stochastic processes, renewal theory and applications, Markov chains, continuous time Markov chains, queuing theory, reliability theory, and other stochastic processes. Prereq: STA 524 or consent of instructor. (Same as STA 624.)

PA Public Administration

PA 500 INTEGRATIVE CARE FOR HEALTH SCIENCES. (1-3) Integrative care involves using the best possible treatments from both complementary and alternative medicine, based on the patient's needs and goals. The course explores the roles of health care providers should be guided by good science and this course will introduce students to the role of evidence-based practice, health care providers and the practices and beliefs of these practices as well as the evidence base of support for these practices. The course integrates experiences from both worlds and describe the safest, least invasive, most cost-effective approach while incorporating a holistic understanding of the individual. May be repeated to a maximum of 3 credits (1 credit didactic and up to 2 credits experiential research). (Same as AT 500, HS 500, CLS 500, CNO 500, CD 500, PT 566.)

PA 621 QUANTITATIVE METHODS OF RESEARCH. (3) A survey of behavioral science research methods for the public administration. Emphasis is placed upon problem identification and development, research design, analysis, and interpretation of research data. Lecture, two hours; laboratory, one hour per week. Prereq: OR and MPA program status. (Same as STA 621.)

PA 622 PUBLIC PROGRAM EVALUATION. (3) This course is designed to provide students with the conceptual and analytical tools to evaluate the effectiveness of public policies and programs. The focus will be on program monitoring and evaluation of particular concern will be program process and outcome measurement, quasi-experimental design, and analysis of variance models. Prereq: PA 621. (Same as STA 622.)

PA 623 DECISION ANALYSIS AND DECISION SUPPORT SYSTEMS. (3) An introduction to decision making under conditions of certainty, uncertainty, risk and multiple objectives. Concepts of analysis from the areas of economics, mathematics, probability, and statistics will be utilized to help decision making in public administration. Course work includes use of various management information systems to show how such systems can be used to support and inform decision making. Lecture, two hours; laboratory, one hour per week. Prereq: PAHA 621, PUAD or HLAD program status or consent of instructor. (Same as STA 623.)

PA 624 GOVERNMENT INFORMATION SYSTEMS. (2) Provides a survey of information strategies and management approaches to government functions and public policy programs and illustrates the interaction between information technology and information systems with the public and private sectors. Prereq: PAHA 621, PUAD or HLAD program status or consent of instructor. (Same as STA 624.)

PA 631 PUBLIC FINANCIAL MANAGEMENT. (3) The course will examine the impact of various public policies and the role of the public sector in the allocation of resources. Prereq: PA 621, MPA or MHA program status. (Same as STA 631.)

PA 632 PERSONNEL MANAGEMENT IN HEALTH ADMINISTRATION. (3) This course will present an overview of career development, human resource planning, stress, recruitment and training, development and in the public and health care sectors. Prereq: MPA or MHA program status. (Same as STA 632.)

PA 633 MUNICIPAL SECURITIES. (3) An analysis of the municipal market structure of public administration and public capital acquisition and debt management. This course emphasizes an applied focus and comparative analysis of alternative theories of public finance. Prereq: PUAD or HLAD program status, or consent of instructor.

PA 635 PUBLIC FUNDING MGMT. (3) A study of the management of public funds including the accumulation, management and investment of such funds for the purposes for which they are collected, cash forecasting, cash management practices and public funds investment strategies. Prereq: MPA or MHA program status; prereq permission of instructor. (Same as STA 635.)

PA 640 FINANCIAL MANAGEMENT. (1) An analysis of how energy and environmental issues associated with the municipal securities industry. Prereq: PA 632 or the equivalent and MPA program status.

PA 636 HEALTH ECONOMICS. (3) This course applies general theoretical principles of economics to the health care sector. The basic approach is to recognize the importance of scarcity and incentives in determining the important goods peculiar to health. The demand and supply of health and medical care are examined in relation to the productivity of the health industry and hospitals. The competitiveness of their markets, health insurance and the role of government are explored. Special topics include regulation and planning of health facilities and costs of health care. Prereq: OR 525. The economics prerequisite can be met in three ways: (a) an undergraduate microeconomics course in microeconomics and STA 525; (b) an undergraduate microeconomics principles course and a graduate course in managerial economics; or (c) an undergraduate microeconomics principles course and an intermediate microeconomics course. (Same as ECO 635/36.)
Course Descriptions

PA 690 ECONOMETRICS (3)
Maximum likelihood estimation, ordinary least squares (OLS) regression, instrumental variables (IV) regression, heteroscedasticity-constant variance, and serial correlation models, and estimation of probabilities and tobit models, and identification and two-state least squares estimation of simultaneous equations models. Prereq: Any undergraduates MPA, MPH or PUD program status for priority registration, other students with permission of instructor. (Same as ECO 690.)

PA 711 INTERNSHIP IN PUBLIC ADMINISTRATION (3)
Practical field experience in an administrative setting under the direction of an academic and a workplace supervision. Prereq: MPA student.

PA 722 POLICY COURSE AND PROGRAM EVALUATION (3)
This is a doctoral course concerning policy and program evaluation. Methods for specifying objectives, systematic evaluation, and analysis of evaluation functions, evaluation concepts and processes research methods applicable to evaluation systems and programs. Prereq: Completion of STA 670 or STA 570, admission to the Physician Assistant Program, or consent of instructor.

PA 727 ENVIRONMENTAL ECONOMICS, REGULATION AND POLICY (3)
This course takes a balanced practitioner approach to the problems of the environment and environmental regulation. Efficiency aspects will be developed carefully, so as to provide a background for an extensive coverage of various available alternative policies. Prereq: PA 652 or MPA or economics program status or consent of instructor. (Same as ECO 721.)

PA 731 FISCAL AND BUDGETARY POLICY (3)
This course examines public budgeting and finance in the context of economic, managerial, and political approaches to public budgeting and finance. These approaches are designed to meet the current issues. Prereq: PA 680 or equivalent and Ph.D. program status or consent of instructor.

PA 749 DISSERTATION RESEARCH (3)
Half-time to full-time work on dissertation. May be repeated to a maximum of six credits. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying examinations. PA 751 PUBLIC POLICY FORMULATION AND IMPLEMENTATION (3)
The main objective of this course is to examine how public policies are formulated. Various topics are addressed in this course. Prereq: PA 651 or equivalent and Ph.D. program status or consent of instructor.

PA 752 THE ECONOMICS OF POLICY ANALYSIS (3)
The course covers the development of public policy. It will be an overview of selected topics in policy analysis. This course also includes an analysis of the major concepts of economic analysis and their application to public policy issues. Prereq: PA 752 or equivalent and Ph.D. program status or consent of the instructor. (Same as ECO 752.)

PA 754 ADVANCED TOPICS IN PUBLIC FINANCE (3)
Principles of taxation and expenditure; applications to federal, state, and local governments. Prereq: PA 727 or equivalent, or consent of instructor.

PA 756 RESIDENCE CREDIT (3)
Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester of the qualifying examination. A minimum of two semesters are required for completion of the residentship (Fall and Spring) until the dissertation is completed and defended.

PA 769 RESIDENCE CREDIT FOR THE DOCTOR’S DEGREE (0-12)
Students admitted to the Doctor’s Degree are required to register for this course. Students must earn at least 12 credits. Prereq: Consent of instructor.

PA 775 SPECIAL TOPICS IN HEALTH ADMINISTRATION (3)
A course offered in special significance for the Master’s or Ph.D. program status. Prereq: Consent of instructor. (Same as HA 775.)

PA 785 INDEPENDENT STUDY IN HEALTH ADMINISTRATION (3)
Supervised individual research on a topic related to health administration. May be repeated a maximum of six credits. Prereq: Consent of instructor. (Same as HA 785.)

PA 795 SPECIAL TOPICS IN PUBLIC ADMINISTRATION (1-3)
Analysis of specialized topics in public administration of particular interest to practitioners. May be repeated to a maximum of six credits. Prereq: Consent of instructor. (Same as PA 795.)

PA 796 INDEPENDENT STUDY IN PUBLIC ADMINISTRATION (1-3)
This course is designed to provide advanced students with an opportunity to explore special topics in public administration. May be repeated to a maximum of six credits. Prereq: PA 652 program status and consent of instructor.

PAS: Physician Assistant Studies

PAS 610 RESEARCH METHODS AND EPIDEMIOLOGY IN PA STUDIES (3)
This course is designed to introduce students to research applicable to the health care sciences and the field of epidemiology. The course will include a description of the scientific method, the purpose of research design, and the role of research in health policy. Emphasis will be placed on both clinical research and population-based studies. Students will learn how to critically review literature and make presentations and recommendations. Prereq: Completion of STA 670, admission to the Physician Assistant Program, or consent of instructor.

PAS 640 SURVEY OF GERIATRIC MEDICINE (3)
Overview of physician assistant practice with geriatric patients. Emphasis is placed on the practice of geriatric medicine including the assessment and management of the health care needs of geriatric patients. Prereq: Admission to the Physician Assistant Program or consent of the instructor.

PAS 645 MASTER’S PROJECT (1-2)
A variable credit hour course designed to provide students with methods of identifying and analyzing a health care delivery issue that can be presented in a research paper and written presentation. Students will learn how to critically review literature and make presentations and recommendations. Prereq: Admission to the Physician Assistant Program or consent of instructor.

PAS 653 ADULT MEDICAL CLERKSHIP (3)
This is an eight-week clinical course designed to provide physician assistant students with experience in evaluating and treating common成人 medical problems encountered in primary care. Prereq: Enrollment in the Physician Assistant Program.

PAS 654 INTEGRATIVE MEDICINE CLERKSHIP (3)
This is a four-week clinical course designed to provide physician assistant students with experience in evaluating and treating common integrative medicine problems encountered in primary care. Prereq: Enrollment in the Physician Assistant Program.

PAS 656 PATIENT EVALUATION AND MANAGEMENT. (3)
This course is designed to provide the general principles of obtaining medical histories and performing physical examinations. Lecture, two hours; laboratory, three hours. Prereq: Enrollment in the Physician Assistant Program.

PAS 853 CLINICAL PRAC TICUM IN PRIMARY CARE ASSISTANT STUDIES. (1-6)
This field assignment offers supervised clinical experience approximating the PA role of the primary care assistant. May be repeated to a maximum of 12 credits. Prereq: 40 hours per week. Prereq: Enrollment in Physician Assistant Program.

PAS 854 CLINICAL PRACTICUM IN PRIMARY HEALTH CARE. (3)
This course is designed to be provided by the general principles of obtaining medical histories and performing physical examinations. Lecture, two hours; laboratory, three hours. Prereq: Enrollment in the Physician Assistant Program.

PAS 855 INTRODUCTION TO HEALTH AND DISEASE. (3)
An overview of the etiology, distribution, and prevention of basic disease processes. Prereq: Enrollment in Physician Assistant Program or consent of instructor.

PAS 856 PATIENT EVALUATION AND MANAGEMENT. (3)
A combination of formal presentations, laboratory practice sessions, and supervised patient care experiences involving patient evaluation and management. Prereq: 16 hours per week. Prereq: Enrollment in Physician Assistant Program or consent of instructor.

PAS 857 PREP CLINICAL LABORATORY PROCEDURES. (3)
A survey laboratory course covering common laboratory procedures performed in the primary care clinical setting. Emphasis will be placed on performing selected procedures and critical clinical tests. Lecture, two hours; laboratory, three hours per week. Prereq: Enrollment in Physician Assistant Program or consent of instructor.

PAS 862 OBSTETRICS AND GYNECOLOGY CLERKSHIP. (3)
This course is designed to provide physician assistant students with experience in evaluating and treating common obstetrical and gynecological problems encountered in obstetrics and gynecology. Experience is provided in the evaluation and treatment of normal and abnormal pregnancies, including preconception counseling, and performing selected laboratory studies and selected obstetric procedures. Prereq: Enrollment in the Physician Assistant Program or consent of instructor.

PAS 864 GERIATRIC CLERKSHIP. (3)
This course is designed to provide physician assistant students with experience in evaluating and treating common geriatric problems encountered in geriatric medicine. Objectives include the development of knowledge and skills in the evaluation, management, and prevention of common geriatric disorders and diseases. Prereq: Consent of instructor.

PAS 868 INTEGRATIVE MEDICINE CLERKSHIP. (3)
This course is designed to provide physician assistant students with experience in evaluating and treating common integrative medicine problems encountered in primary care. Emphasis is placed on performing a history and physical examination, selecting and interpreting laboratory examinations, and establishing a logical differential diagnosis, conducting research on clinical problems, performing selected procedures, establishing a tentative treatment plan. Prereq: Enrollment in Physician Assistant Program and successful completion of the didactic portion of the PA curriculum.

PAS 872 PHARMACOLOGY I. (3)
This course is designed to prepare students for the pharmacological requirements of practice as a primary care physician assistant. Emphasis is placed on utilizing specific drugs and drug combinations for specific diseases, and performing literature reviews on current pharmacological issues. Prereq: Completion of STA 670, admission to the Physician Assistant Program, or consent of instructor.

PAS 874 CLINICAL PRACTICUM IN PRIMARY CARE ASSISTANT STUDIES. (2-3)
This course is designed to provide students with the clinical experience necessary to prepare students for the practice of primary care physician assistant. Emphasis is placed on utilizing specific drugs and drug combinations for specific diseases, and performing literature reviews on current pharmacological issues. Prereq: Completion of STA 670, admission to the Physician Assistant Program, or consent of instructor.
PHI 100 INTRODUCTION TO PHILOSOPHY: KNOWLEDGE AND RATIONALITY

An introduction to philosophical studies with emphasis on issues of knowing, reasoning, and human existence.

PHI 120 INTRODUCTION TO LOGIC

A course which treats argumentation, syllogistic, and sentential logic. The focus will be on the use of formal methods in the inculcate standards of good reasoning, e.g., clarity, consistency and completeness of deductive systems. Prereq: PHI 320 or consent of instructor.

PHI 330 INTRODUCTION TO PHILOSOPHY: ETHICS

An examination of fundamental issues in ethics, such as duty, character, virtue and vice, moral responsibility, free will, the good life, the emotions, and personal identity.

PHI 332 PROFESSIONAL ETHICS

A study of ethical issues related to professional roles, especially those of physicians and lawyers. Among the topics to be considered are the nature and justification of professional responsibilities and duties; obligations of professions to society; the professional-client relationship and its rights and obligations; enforcement of codes of ethics.

PHI 333 THE INDIVIDUAL AND SOCIETY

An examination of moral and social issues involving the relationship between the individual and society, including radical individualism and collectivism, as well as more moderate theories. Attention will be given to both secular and classical philosophical positions for these views and emphasis will be placed upon relating these theories to contemporary social, cultural, and political issues.

PHI 334 INTRODUCTION TO FEMINISM AND PHILOSOPHY

Introduction to basic feminist thought from a philosophical perspective. Emphasis on causes of the oppression of women. Topics may include philosophical perspectives and gender roles, images of women in society, violence against women, and reproductive choices.

PHI 335 THE INDIVIDUAL AND SOCIETY

An examination of several incompatible views concerning the relationship between the individual and society, including radical individualism and collectivism, as well as more moderate theories. Attention will be given to both secular and classical philosophical positions for these views and emphasis will be placed upon relating these theories to contemporary social, cultural, and political issues.

PHI 337 INTRODUCTION TO LEGAL PHILOSOPHY

A general introduction to basic concepts, institutions, and mechanisms of law. Understanding of the legal system and its methods is promoted through discussion of topics which include: basic legal reasoning, the function of the legal process, fundamental legal concepts and categories (such as property, crime, and contract).

PHI 340 INTRODUCTION TO ANTHROPOLOGY

An introduction to the study of humans and their cultures. The course will cover the biological and cultural aspects of human behavior. Prereq: PHI 260 or consent of instructor.

PHI 345 THE HISTORY OF ETHICS

A systematic study of sentential logic, elementary quantification, and the logic of identity. The student will acquire specific skills in the manipulation of symbols to represent logical relations and value theory, such as: the nature (if any) of the self; the role of experience and the logic of identity. The student will acquire specific skills in the manipulation of symbols to represent logical relations and value theory, such as: the nature (if any) of the self; the role of experience and the private reference to major 20th-century philosophical paradigms of critical social thought. Critical social thought in philosophy comprises those authors and schools that focus philosophical method on human existence. This course will explore critical philosophical positions of common conceptions of human nature while variously emphasizing rationality, ontology, language, or social and historical context.

PHI 347 CONTEMPORARY PHILOSOPHY:

A survey of 20th century philosophy, such as: the nature of the self; the role of experience and the logic of identity. The student will acquire specific skills in the manipulation of symbols to represent logical relations and value theory, such as: the nature (if any) of the self; the role of experience and the private reference to major 20th-century philosophical paradigms of critical social thought. Critical social thought in philosophy comprises those authors and schools that focus philosophical method on human existence. This course will explore critical philosophical positions of common conceptions of human nature while variously emphasizing rationality, ontology, language, or social and historical context.

GROUP B

PHI 519 CRITICAL SOCIAL THOUGHT

A study of theories of justice, ethical thought and value theory, such as: the nature of the self; the role of experience and the logic of identity. The student will acquire specific skills in the manipulation of symbols to represent logical relations and value theory, such as: the nature (if any) of the self; the role of experience and the private reference to major 20th-century philosophical paradigms of critical social thought. Critical social thought in philosophy comprises those authors and schools that focus philosophical method on human existence. This course will explore critical philosophical positions of common conceptions of human nature while variously emphasizing rationality, ontology, language, or social and historical context.

PHI 517 THE CLASSICAL TRADITION

A survey of 20th century philosophy, such as: the nature of the self; the role of experience and the logic of identity. The student will acquire specific skills in the manipulation of symbols to represent logical relations and value theory, such as: the nature (if any) of the self; the role of experience and the private reference to major 20th-century philosophical paradigms of critical social thought. Critical social thought in philosophy comprises those authors and schools that focus philosophical method on human existence. This course will explore critical philosophical positions of common conceptions of human nature while variously emphasizing rationality, ontology, language, or social and historical context.

PHI 518 FEMINIST PHILOSOPHY

A course which treats argumentation, syllogistic, and sentential logic. The focus will be on the use of formal methods in the inculcate standards of good reasoning, e.g., clarity, consistency and completeness of deductive systems. Prereq: PHI 320 or consent of instructor.

PHI 519 CRITICAL SOCIAL THOUGHT

A study of theories of justice, ethical thought and value theory, such as: the nature of the self; the role of experience and the logic of identity. The student will acquire specific skills in the manipulation of symbols to represent logical relations and value theory, such as: the nature (if any) of the self; the role of experience and the private reference to major 20th-century philosophical paradigms of critical social thought. Critical social thought in philosophy comprises those authors and schools that focus philosophical method on human existence. This course will explore critical philosophical positions of common conceptions of human nature while variously emphasizing rationality, ontology, language, or social and historical context.

PHI 520 SYMBOLIC LOGIC II

A systematic study of sentential logic, elementary quantification, and the logic of identity. The student will acquire specific skills in the manipulation of symbols to represent logical relations and value theory, such as: the nature (if any) of the self; the role of experience and the private reference to major 20th-century philosophical paradigms of critical social thought. Critical social thought in philosophy comprises those authors and schools that focus philosophical method on human existence. This course will explore critical philosophical positions of common conceptions of human nature while variously emphasizing rationality, ontology, language, or social and historical context.

PHI 521 PHILOSOPHY AND THE CLASSICAL TRADITION

A study of representative texts and issues in Ancient Philosophy with special attention to the historical continuity with the Greek philosophical tradition and the interrelations of thinkers and problems. Topics of interest include the communisimutability of philosophy and (revealed) law, the creation or eternity of the world, the nature of the self, the human good, the god and divine language. Prereq: PHI 260 or consent of instructor.

PHI 525 SOCIAL AND POLITICAL PHILOSOPHY

A general introduction to the philosophical background of classical and modern social and political philosophy with special attention to the historical continuity with the Greek philosophical tradition and the interrelations of thinkers and problems. Topics of interest include the communisimutability of philosophy and (revealed) law, the creation or eternity of the world, the nature of the self, the human good, the god and divine language. Prereq: PHI 260 or consent of instructor.

PHI 527 PHILOSOPHY OF LAW

An examination of several 19th and 20th century philosophical approaches in the philosophy of law. Topics include: free will and determinism; personal identity and authority; relations between individuals; rights of individuals and groups; social relations; the nature and justification of legal systems; enforcement of codes of ethics. Prereq: PHI 260 or consent of instructor.
PHI 545 PHILOSOPHY OF RELIGION. (3)
An analysis of philosophical issues generated by religious questions, the nature of religious language, and the concept of God, with a focus on the problem of evil and the problem of freedom.

PHI 546 PHILOSOPHY OF SCIENCE. (3)
A critical evaluation of selected conceptual and/or methodological problems that are currently of interest in the philosophy of science. Topics include: the uses of models in science; the concept of evidence; the nature of scientific theories; and the relationship between science and society.

GROUP C

PHI 550 PHILOSOPHICAL PROBLEMS IN THE SOCIAL AND BEHAVIORAL SCIENCES. (3)
An examination of various methodological issues and broader philosophical questions of special concern in the social sciences. Among the topics to be studied: the structure of theories and the roles of data and theory in the social sciences, the nature of the concept of person, the nature of knowledge and the relationship of science and society.

PHI 560 PHILOSOPHY OF LANGUAGE. (3)
An examination of problems current in the philosophy of language such as the nature of meaning, the nature of truth, the nature of propositional content, the nature of linguistic relativism and the relation of semantics to philosophy.

PHI 570 PHILOSOPHY OF HISTORY. (3)
An examination of the theories and methods utilized by historians with special emphasis on the nature of philosophical problems and historiographical history, the nature of historical knowledge and narrative, and the role of historical knowledge in the philosophical understanding. Attention will also be given to normative questions as to the philosophical analysis of such sociological categories as social classes, feeling, emotion, perception, imagination, thinking and will.

GRADUATE SEMINARS

PHI 630 SEMINAR IN VALUE THEORY. (3)
A seminar designed to acquaint students with the history, the major current approaches and some of the major philosophical issues of the field of value theory. This seminar is required as a prerequisite to the study of value theory in the doctoral program. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

PHI 650 SEMINAR IN METAPHYSICS AND EPistemology. (3)
A seminar on a topic in metaphysics and epistemology of special concern among the students. Topics will be selected from areas that are not being covered in other courses. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

PHI 700 SEMINAR IN ANCIENT PHILOSOPHY. (3)
Intensive study of original works of such major classical philosophers as Plato, Aristotle, and the Stoics. May be repeated to a maximum of six credits. Prereq: PH 260 or equivalent.

PHI 705 SEMINAR IN MEDIEVAL PHILOSOPHY. (3)
Intensive study of the issues treated by one or more medieval philosophers, e.g., Augustine, Aquinas, Scotus or Ockham. May be repeated to a maximum of six credits. Prereq: PHI 506.

PHI 706 SEMINAR IN MODERN PHILOSOPHY. (3)
Intensive study of the major works of such prominent philosophers of modern times as Descartes, Locke, Hume, Kant, and Hegel. May be repeated to a maximum of six credits. Prereq: PHI 270 or equivalent.

PHI 715 SEMINAR IN RECENT PHILOSOPHY. (3)
Intensive study of major philosophers of the 20th Century such as Russell, Wittgenstein, J.L. Austin, and Merleau-Ponty. May be repeated to a maximum of six credits. Prereq: PHI 515 or equivalent.

PHI 749 DISSERTATION RESEARCH. (0-6)
To be scheduled as needed. May be repeated to a maximum of 12 credits. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

PHI 755 TUTORIAL IN INTERDISCIPLINARY ISSUES. (1-6)
As a tutorial, this course is structured individually to a student’s academic problem. Options are chosen and pursued in work that integrates philosophical methods and ideas within other disciplinary areas. May be repeated to a maximum of nine credits. Prereq: Consent of instructor. (Same as CPH 655.)

PHI 767 DISSERTATION RESIDENCY CREDIT. (2)
Residency credit for dissertation research after the qualifying examination only. May be repeated to a maximum of 12 hours. Prereq: Consent of instructor. (Same as CPH 665.)

PHI 769 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (0-12)
May be repeated to a maximum of 12 hours. Prereq: Consent of instructor.

PHI 790 RESEARCH IN PHILOSOPHY. (3)
This course is primarily intended for advanced students who desire and are prepared to do research in philosophy. May be repeated to a maximum of 12 credits.

PHR Pharmacy

PHR 222 DRUGS, MEDICINES, AND SOCIETY. (3)
The course is designed to enable the university graduate to be sufficiently sophisticated in his understanding of the psychological and behavioral effects of medicines, environmental toxicants, and psychoactive substances so that he may make informed decisions regarding their use in his life, home and community. This course provides an overview of the major issues and the contemporary standard and alternative treatments available for a variety of maladies. (Note: It is felt that this course might be of particular interest to freshmen.)

PHR 510 MODERN METHODS IN PHARMACOANALYSIS. (3)
A course which deals with the application of modern analytical methods and techniques to the problems of modern pharmaceuticals, with special emphasis on the determination of impurities, potency, and quality of drugs and pharmaceuticals. Laboratory exercises include analysis of raw materials and finished dosage forms. Lecture, three hours; laboratory, four hours. Prereq: CHE 226.

PHR 520 SPECIAL TOPICS IN PHARMACY LAW. (2)
This is a seminar course in which a selected body of pharmaceutical topics will be discussed from a mechanistic chemistry point of view. Topics may include the legal framework and special legal issues in pharmacy practice. This course will cover ethical and regulatory guidelines for conducting clinical research. Prereq: Participation in curriculum leading to Graduate Certificate in Clinical Research Skills, or permission of instructor. (Same as PHA/TOX 649.)

PHR 545 STERILE PARENTERALS AND DEVICES. (2-3)
A specialized advanced study of topics in traditional areas of pharmacy, with special emphasis on the strength, purity, and quality of drugs and pharmaceuticals. Lecture, three hours; laboratory, three hours. Prereq: PHR 802 (or equivalent), MA 114 and consent of instructor. (Same as PHA 612.)

PHR 565 ETHICAL ISSUES IN PHARMACEUTICAL SCIENCES. (1-4)
A course dealing with emerging issues in pharmaceutical sciences which are not being covered in other courses. May be repeated to a maximum of 12 hours. Prereq: Consent of instructor.

PHR 748 MASTER’S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of eight credits. Prereq: All course work toward the degree must be completed.

PHR 749 DISSERTATION RESEARCH. (0)
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed.

PHR 767 DISSERTATION RESIDENCY CREDIT. (2)
Residency credit for dissertation research after the qualifying examination. May be repeated to a maximum of 12 hours. Prereq: Consent of instructor. (Same as CPH 665.)

PHR 768 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (0-12)
May be repeated to a maximum of 12 hours. Prereq: Consent of instructor. (Same as CPH 665.)

PHR 776 SEMINAR IN PHARMACEUTICAL SCIENCES. (1)
Reports and discussion of pertinent research and literature in the pharmaceutical sciences. Required of all graduate students. Prereq: Graduate standing.

PHR 777 SEMINAR II IN PHARMACEUTICAL SCIENCES II. (1)
Reports and discussion of pertinent research and literature in a disciplinary area of the pharmaceutical sciences. May be repeated to a maximum of eight credits. Prereq: Graduate standing.

PHR 780 SPECIAL PROBLEMS IN PHARMACEUTICAL SCIENCES. (1-6)
A study of a problem of special concern in the field of pharmaceutical sciences. Students will demonstrate their competence by developing a research project and preparing a formal oral presentation. Prereq: Permission of instructor. (Same as CPH 655.)

PHR 778 SEMINAR IN PHARMACEUTICAL SCIENCES. (1)
Reports and discussion of pertinent research and literature in a disciplinary area of the pharmaceutical sciences. May be repeated to a maximum of eight credits. Prereq: Graduate standing.

PHR 790 RESEARCH IN PHARMACEUTICAL SCIENCES. (1-12)
Research work to be conducted in selected areas of pharmaceutical sciences. Prereq: Approval of student’s special committee and consent of instructor.

PHR 811 COMPUTER APPLICATIONS IN PHARMACY. (2)
A guide to the selection and use of computers in pharmaceutical practice with emphasis on the selection and use of hardware and software, capabilities of various systems, language, applications to patient profiles, inventory control and accounts are considered.
PHR 813 Gериатрическая Фармакология. (3)

A course for a detailed understanding of the aging process and the attitudes and skills required to meet the pharmaceutical needs of the elderly. Topics include discussions of the aging process, physiological, and psychosocial aspects of aging, how the elderly respond to drugs and nondrug treatments, monitoring drug use in long-term care facilities, and special considerations for the elderly health care practitioner. Prereq: PHR 849, 852, 853, 854 and 856 or permission of instructor (Same as GRN 513).

PHR 821 ВВЕДЕНИЕ В КУЛЬТУРУ ТЕРАПЕУТИЧЕСКИХ И МОЛЕКУЛЯРНОЙ БИОЛОГИИ. (3)

A continuation of PHR 911. Variable mixture of lecture, group discussion and independent study. Prereq: Admission to the first year, College of Pharmacy.

PHR 822 КУЛЬТУРА ПРАКТИЧЕСКИХ НУТРИЦИОНАЛЬНЫХ. (3)

A continuation of PHR 929 concentrating on initial skill development in resolving moderately complex patient/drug related problems. Variable mixture of lecture, group discussion, group exercises, public service projects and portfolio development. Coreq: Required PHR 930 series courses.

PHR 831 БАЗОВЫЕ ПРИНЦИПЫ ПРАКТИЧЕСКИХ НУТРИЦИОНАЛЬНЫХ И БИОФАРМАКОЛОГИИ. (3)

A continuation of PHR 929 concentrating on initial skill development in resolving moderately complex patient/drug related problems. Variable mixture of lecture, group discussion, group exercises, public service projects and portfolio development. Coreq: Required PHR 930 series courses.

PHR 832 КУЛЬТУРА ПРАКТИЧЕСКИХ НУТРИЦИОНАЛЬНЫХ И БИОФАРМАКОЛОГИИ. (3)

A continuation of PHR 929 concentrating on initial skill development in resolving moderately complex patient/drug related problems. Variable mixture of lecture, group discussion, group exercises, public service projects and portfolio development. Coreq: Required PHR 930 series courses.
A clinical experience in the use of drugs in the diagnosis, treatment, and management of diseases. Experiences will be obtained in a variety of areas and settings. A continuation of PHR 957. Variable mixture of discussion, lecture, seminar, group discussion, individual study, laboratory exercises, public service projects and portfolio development with primary emphasis on problem based learning and further independent learning development. Coreq: Required PHR 95X series courses.

PHR 948 ADVANCED PHARMACOTHERAPY VI. (3)
A continuation of PHR 947. Emphasis on drug interactions, adverse effects and excretion and the mathematical models that describe these events including the calculation of dosage regimens for patients with problems ranging from simple to complex. A variable mixture of discussion, seminar, group discussion, individual study, laboratory exercises, public service projects and portfolio development. Coreq: Required PHR 94X series courses.

PHR 951 PHARMACOLOGICAL BASIS FOR THERAPEUTIC/CALCULATORY AND RENAL SYSTEMS. (3)
A study of the pharmacology of the major disorders affecting the cardiovascular, renal and respiratory systems that will encompass the pharmacology of the therapeutic agents used to treat those disorders. Variables include group discussion and individual study. Prereq: Admission to third year, College of Pharmacy. Preq: PHY 151.

PHR 957 ADVANCED PHARMACOTHERAPY V. (3)
A continuation of PHR 956. Variable mixture of discussion, lecture, individual study and laboratory. Taught part of term. Preq: Admission to third year, College of Pharmacy, coreq: PHY 957.

PHR 959 ADVANCED PHARMACOTHERAPY IV. (3)
A continuation of PHR 958. Concentrating on initial skill development in resolving very complex patient/drug related problems. Variable mixture of discussion, seminar, group discussion, individual study, laboratory exercises, public service projects and portfolio development with primary emphasis on problem based learning and further independent learning development. Coreq: Required PHR 95X series courses.

PHR 966 ADVANCED PHARMACOTHERAPY III. (3)
A continuation of PHR 957. Variable mixture of discussion, lecture, independent study and laboratory. Taught part of term. Preq: Admission to third year, College of Pharmacy, coreq: PHY 957.

PHR 967 ADVANCED PHARMACOTHERAPY II. (3)
A continuation of PHR 956. Variable mixture of discussion, lecture, independent study and laboratory. Taught part of term. Preq: Admission to third year College of Pharmacy, coreq: PHY 957.

PHR 969 ADVANCED PHARMACOTHERAPY I. (3)
A continuation of PHR 957. Variable mixture of discussion, lecture, independent study and laboratory. Taught part of term. Preq: Admission to the second year, College of Pharmacy. Preq: PHY 947 and 949.

PHY 130 PHYSICS OF ENERGY. (3)
A lecture and problem course on the applications in physics of the close relationship between physical science, technology and our everyday lives. The basics of electric circuits, magnetism, optics, atomic and nuclear physics. Credit is not given to students who already have credit for PHY 201, 203 or 232. Preq: Two years of high school algebra or MA 108R.

PHY 151 INTRODUCTION TO PHYSICS. (3)
A lecture demonstration course covering the mechanics of solids, liquids, gases, heat, and sound. Credit is not given to students who already have credit for PHY 201, 213 or 232. Preq: Two years of high school algebra or MA 108R.

PHY 152 INTRODUCTION TO PHYSICS. (3)
A lecture demonstration course covering the mechanics of solids, liquids, gases, heat, and sound. Credit is not given to students who already have credit for PHY 201, 213 or 232. Preq: Two years of high school algebra or MA 108R.

PHY 170B OPTICS. (3)
The course will discuss basic concepts in physics prior to the 20th century and the backdrop to the emergence of the Special Theory of Relativity. Elementary Special and General Relativity will be discussed at a non-technical level. These concepts will be used to explain how very massive stars inevitably collapse to form black holes. Their existence is being probed by the world's largest telescopes. Hawking leading to the prediction that black holes emit faint radiation will be explained. Finally, the possibility of existence of wormholes leading to time travel will be explored.

PHY 210 SPECIAL LABORATORY FOR GENERAL PHYSICS PHY 201. (1)
Special laboratory course for students who have completed PHY 201 and later determine that they need an accompanying laboratory. Laboratory, two hours per week. Preq: PHY 201.

PHY 211 GENERAL PHYSICS. (3)
First part of a two-semester survey of classical and modern physics, focusing on the motion of solids and fluids as governed by Newton's laws and on the wave-like nature of light as described by a quantum mechanical viewpoint. Lecture, two hours; recitation, two hours; laboratory, two hours. Credit is not given to students who already have credit for PHY 213 or 232. Preq: A working knowledge of algebra and trigonometry as obtainable in MA 109 and MA 112, or as demonstrated by successful placement of 25 or higher. Prereq: PHY 212.

PHY 212 SPECIAL LABORATORY FOR GENERAL PHYSICS PHY 203. (1)
Special laboratory for students who have completed PHY 203 and later determine that they need an accompanying laboratory. Laboratory, two hours per week. Preq: PHY 203.

PHY 213 GENERAL PHYSICS. (3)
Continuation of PHY 211, covering electromagnetic, circuit theory, magnetism, Maxwell's Equations, electromagnetic radiation, light and some modern physics. Lecture, two hours; recitation, two hours; laboratory, two hours. Credit is not given to students who already have credit for PHY 232 and 242. Preq: PHY 211 or equivalent.

PHY 220 OPTICS, RELATIVITY AND THERMODYNAMICS. (3)
A lecture and problems course covering the principles of geometrical optics, special relativity, and thermal physics. Preq: or concr: PHY 213, MA 114.

PHY 231 GENERAL UNIVERSITY PHYSICS. (4)
First part of a two-semester survey of classical physics. Consists of discussions of the following topics: kinematics, dynamics of a particle, rigid bodies, Lagrange's equations, constrained motions, and energy equivalence. Prereq: PHY 213 or 232. MA 114 (may be taken concurrently), or equivalent. (Same as AM 472G.)

PHY 232 COMPUTATIONAL PHYSICS LABORATORY. (3)
An intermediate-level laboratory course emphasizing the application of numerical methods to the solution of problems encountered in mechanics and electrodynamics. Lecture, one hour; laboratory, four hours per week. Preq: PHY 213 or equivalent.

PHY 241 INTERMEDIATE LABORATORY PHYSICS COURSE. (4)
An intermediate-level laboratory course emphasizing the application of numerical methods to the solution of problems encountered in mechanics and electrodynamics. Lecture, one hour; laboratory, four hours per week. Preq: PHY 213 or equivalent.

PHY 242 GENERAL UNIVERSITY PHYSICS LABORATORY. (1)
A laboratory course in experiments in electricity, magnetism, optics, atomic and nuclear physics. Credit is not given to students who already have credit for PHY 201, 213 or 232. Preq: PHY 241 or concr: PHY 213.

PHY 243 ADVANCED MECHANICS. (3)

PHY 244 MECHANICS. (3)
A lecture and problem course covering the fundamentals of mechanics including forces and moments, translational kinematics and dynamics, the motion of systems of particles, the conservation of energy, and equilibrium of rigid bodies. Prereq: PHY 231 or PHY 232.

PHY 245 RELATIVITY AND Astronomy FOR ELEMENTARY, MIDDLE SCHOOL AND HIGH SCHOOL TEACHERS. (1-4)
Selected topics in physics and astronomy of special interest to teachers will be discussed. When the course is offered, a specific title with specific credits, the number of hours in lecture-discussion and laboratory will be announced. Lecture/discussion, two-four hours; laboratory, zero-four hours. May be repeated to a maximum of eight credits. Preq: Open only to elementary, middle school and high school teachers.
PLS 748 MASTER’S THESIS RESEARCH. (0) Hours of independent reading and research on thesis problems. Must be repeated to a maximum of six semesters. Prereq. All course work toward the degree must be completed.

PLS 505 RESEARCH RESIDENCY CREDIT. (2) Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester of the oral examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

PLS 396 RESIDENCY CREDIT FOR MASTER’S DEGREE. (1-4) May be repeated to a maximum of 12 hours.

AGRONOMY

PLS 367 SOIL AND WATER ANALYSIS LABORATORY. (3) Introductory laboratory emphasizing fundamental principles in soil science. The laboratory is designed to provide hands-on-experience in soil-water research and the written communication of acquired knowledge. Lecture 1 hour, laboratory 3 hours per week. Prereq. Coreq. Prerequisite: PLS 366.

PLS 393 SPECIAL PROJECTS IN PLANT AND SOIL SCIENCE. (1-4) May be repeated to a maximum of nine credits. Prereq. Consent of appropriate instructor before registration.

PLS 396 SOIL JUDGING. (1-2) This course is designed to build soil resource evaluation designed to prepare the students with essential field training needed to pursue careers as soil scientists, conservationists, planners, agrichemical experts, etc. Emphasis is placed on the relationships between contrasting types of soils and rating them for soil use and management suitability. The course is also used to prepare the UK soil judging team for regional college competition. May be repeated to a maximum of five credit hours. Prereq. Coreq. Prerequisites: PLS 366.

PLS 404 INTEGRATED WEED MANAGEMENT. (4) A study of weed management concepts based on the integration of weed science, crop production, plant health, economic, biological, and herbicidal control. Lecture, three hours; laboratory, two hours. Prereq. PLS 366.

PLS 418 ADVANCED SOIL JUDGING. (3) A more advanced treatment of soil use evaluations under diverse climatic and physiographic environments. Students will obtain experience in the evaluation of properties of contrasting types of soils and rating them for soil use and management suitability. The course is also used for preparing the UK soil judging team for national college competition. Prereq. Consent of instructor. May be repeated for a maximum of 12 credit hours. Prereq. Coreq. Prerequisites: PLS 366.

PLS 480 TOBACCO. (3) The biology of tobacco, entomology, breeding, and cultivation of tobacco with special emphasis on burley. Prereq. PLS 336 or consent of instructor.

PLS 492 ANIMAL CROPS. (3) Study of the grain crops of the world with respect to adaptation, production, management, and use. Prereq. PLS 336 or consent of instructor.

PLS 450 BIOGEOCHEMISTRY. (3) A course emphasizing the physical, chemical, and biochemical make-up of soil-water systems and the information required to properly measure and interpret the information. Emphasis is placed on the relationships describing mineral solubility, sorption and exchange reactions, and chemical and biochemical cycling. Prereq. CHE 107, 107, 115, two semesters of college biology. (Same as NRC 455G.)

PLS 456 WETLAND DELINEATION. (3) Basic concepts of natural wetland ecosystems, their importance, functions, and major features used for their identification and classification. Topics include the hydrology, vegetation, hydrophyte vegetation and hydric soil indicators for identification of important wetlands utilizing documentation and analysis of field collected data. Three laboratory exercises and four short field trips required. Prereq. PLS 366 or consent of instructor. (Same as NRC 455G.)

PLS 456G CONSTRUCTED WETLANDS. (3) Introduction to the design, natural and constructed wetlands as water purifiers. Principles and mechanisms of the purification process, design, construction, operation and management criteria for effective usage. Case studies and design problems of constructed wetlands on mining, agricultural, industrial and municipal wastewater treatment applications. Two all day field trips are required. Prereq. PLS 366 or consent of instructor. (Same as NRC 455G.)

PLS 460G SOIL USE AND MANAGEMENT. (3) The role of soils in determining crop yields and their management in the utilization of land and associated resources. Lecture and discussion. Prereq. PLS 366 or consent of instructor.

PLS 470G SOIL FORMATION MANAGEMENT. (3) Sources and manufacture of fertilizer materials; soil reaction of elements essential for plant growth; effective use of fertilizers for various soil situations. Prereq. CHE 105, PLS 350 and PLS 360 or consent of instructor.

PLS 477G LAND TREATMENT OF WASTE. (3) Recognition of the need for on-site waste treatment with principles and methods of best-use application of wastes (agricultural, industrial, and municipal). Topics include chemical and biological systems; soil and plant management solutions to problems. Lecture and laboratory. Prereq. PLS 366. (Same as NRC 477G.)

PLS 501 RECLAMATION OF DISTURBED LAND. (3) Development of concepts, principles, and an understanding of the problems associated with restoring the productivity of soils disturbed by surface mining of coal as well as a limited discussion of reclamation of other types of disturbed soils. One all-day field trip is required. Prereq. PLS 366.

PLS 502 ECOLOGY OF ECONOMIC PLANTS. (3) A study of the physiological processes involved in determining economic yield in crop grains. The focus will be on factors operating at the whole plant and plant community level as opposed to physiological processes at the cellular or subcellular level. A logical, analytical description of the process of economic yield production by grain crops will be developed and related to physiological changes in crop plants as stress increases and yields in the future. Prereq. PLS 386 and BIO 430G or consent of instructor.

PLS 560G PLANT PHYSIOLOGICAL MECHANISMS IN HORTICULTURAL PLANTS. (3) A critical evaluation of the recent concepts in certain selected areas of plant physiology pertinent to plant growth and structure and their role in horticultural plants. (Same as BIO/PPA 430G.)

PLS 569G PLANT BIOCHEMISTRY. (4) This course will consider the chemical constituents of plants (with emphasis on biology and biochemistry) including proteins, carbohydrates, lipids, steroids, terpenoids and phenylpropanoids, nitrogen fixation, carbon and sulfur reduction and assimilation, alkaloids and additional secondary compounds in plants. Prereq. BIO/PPA 430G or consent of instructor. (Same as BIO/PPA 609.)

PLS 619G CYTOGENETICS. (4) Classical, biochemical, and molecular studies of the structure and function of eukaryotic chromosomes. Emphasis is placed on the effects of variation in chromosome type, structure and number on agriculturally important crop and animal breeding. Lecture: two hours; laboratory: two hours. Prereq. PLS 220 and/or ABT/ASC/ENT 360 and BIO 304. (Same as BIO 619G.)

PLS 620 PLANT MOLECULAR BIOLOGY. (4) This course is intended to be a treatment of current concepts of plant molecular biology. It will be a literature-based course, supplemented by handouts and reading lists. The course will deal as much as is possible with topics that are unique to plants. Current aspects of molecular biology that are relevant to the course content will be covered. Emphasis will be placed on understanding how genes function. Students will not be a review of topics that have been introduced from previous courses. Prereq. BIO 430G or consent of instructor. Prereq. or concurrent: PLS 620. (Same as PLS/PPA 620.)

PLS 623 PHYSIOLOGY OF PLANTS. (3) A physiological/biochemical treatment of central topics in modern plant physiology. Topics will include: plant-cell biology, ion transport, photosynthesis, water and translocation, respiration and photosynthesis. Prereq. BIO 430G or consent of instructor. Prereq. or concurrent: PLS 623. (Same as BIO/PPA 623.)

PLS 650 SOIL-PLANT RELATIONSHIPS. (3) An advanced course on the interactions between soil and plants. Prereq. PLS 366, BIO 430G (or equivalent), or consent of instructor.

PLS 657 SEED BIOLOGY. (3) Structure, development and function during plant reproductive development and seed outgrowth, including fertilization, embryogenesis and seedling growth and development. May be repeated for a maximum of nine credits. Prereq: Consent of instructor. Prereq. or concurrent: PLS 657. (Same as ITECH 657.)

PLS 676 QUANTITATIVE INHERITANCE IN PLANT POPULATIONS. (3) Study of the effects of variation in chromosome type, structure and number on agriculturally important crop and animal breeding. Prereq. STA 270 or consent of instructor.

PLS 769 RESIDENCE CREDIT FOR THE DOCTOR’S DEGREE. (0-12) May be repeated indefinitely.
Horticulture

PLS 100 INTRODUCTION TO HORTICULTURAL PRODUCTION

A survey of horticulture as a profession, to inform students of opportunities and to develop an appreciation of horticulture as it relates to the human environment. Offered on a pass/fail basis only.

PLS 300 WOODY HORTICULTURAL PLANTS

A detailed study of woody plants, shrubs, vines, and ground covers occurring in the landscape; their systematic identification, hardness, form, growth habit, size, culture, adaptation to environmental conditions, uses, and outstanding horticultural characteristics. Lecture, three hours; laboratory, three hours. Prereg: PLS 220.

PLS 330 HERBACEOUS HORTICULTURAL PLANTS

The identification and cultural requirements of herbaceous plants. A designated number of annuals, perennials, commercial cut flowers, flowering pot and bedding plants, foliage plants readily available in the fall will be covered. Lecture, three hours; laboratory, two hours per week for one half semester. Prereg: PLS 220.

PLS 332 HERBACEOUS CUT FLOWERS I

The identification and cultural requirements of herbaceous plants. A designated number of annuals, perennials, commercial cut flowers, flowering pot and bedding plants, foliage plants readily available in the spring will be covered. Lecture, three hours; laboratory, two hours, per week for one half semester. Prereg: PLS 220.

PLS 351 LANDSCAPE MANAGEMENT AND ARBORICULTURE

Discussion of the processes, pruning, repair, and culture of plant material in landscape plantings as well as the diagnosis of plant-related problems and the management principles of landscape maintenance. Lecture, two hours, laboratory, three hours per week. Prereg: PLS 210, PLS 386.

PLS 463 GREENHOUSES AND CONTROLLED ENVIRONMENTS

A study of greenhouse structures, coverings, equipment, and the maintenance and management of greenhouse crops. Other types of controlled environments will also be studied. Lecture, two hours; laboratory, two hours per week. Prereg: PLS 386.

PLS 520 FRUIT AND VEGETABLE PRODUCTION

Commercial production practices for major fruits and vegetables. Prereg: PLS 386.

PLS 525 GREENHOUSE FLORAL CROP MANAGEMENT

The study of methods of control of flowering and growth of selected flowering pot plants, cut flowers and bedding plants produced commercially in greenhouses. Lecture, two hours; laboratory, two hours. Prereg: PLS 440 and PLS 465.

PPA Plant Pathology

PPA 395 INDEPENDENT STUDY IN PLANT PATHOLOGY

Independent study in Plant Pathology under the supervision of a faculty member. Prereg: Consent of appropriate instructor.

PPA 400 PRINCIPLES OF PLANT PATHOLOGY

To present a comprehensive survey of the basic principles of plant pathology. The causes, effects, control and nature of plant diseases will be studied. The laboratory will expose students to common diseases and pathogens discussed in the lecture. Prereg: Degree in botany and an emphasis on plant science. Prereg: BIO 101 or consent of instructor.

PPA 410 FOREST PATHOLOGY

Physiological and molecular aspects of plant biology underlying interactions with microbial pathogens and symbionts. Prereg: PPA 400G can be concurrently.

PPA 600 CRITICAL METHODS IN PLANT MICROBIOLOGY

The course will provide instruction on experimental methods commonly used in Plant-Microbe Interaction and will train students in critical thinking, quantitative, statistical, and research presentation. Prereg: PPA 500.

PPA 601 SPECIAL TOPICS IN MOLECULAR AND CELLULAR GENETICS

Each semester five distinguished visiting scientists from the campus visit the department to deliver a series of three formal lectures each and participate in informal contacts and discussions with graduate students. The emphasis will be placed on the presentation of the most current advances (often unpublished) in selected topics in molecular and cellular genetics. May be repeated to a maximum of six credits. (Same as BCH 669.)

PPA 699 PLANT BIOCHEMISTRY

The course will cover the chemical constituents of plants with emphasis on biologically or nutritionally significant compounds unique to plants, their biosynthesis, contribution to key metabolic and physiological functions of plants, and their synthesis. Included topics will be reactions of plant metabolism, photosynthesis, and plant growth and development. Prereg: PPA 400G or equivalent consent of instructor. (Same as BCH/PLS 669.)

PPA 640 IDENTIFICATION OF PLANT DISEASES

Recognition and identification of plant diseases and their causes and developments. Emphasis will be placed on student practical experience dealing with a wide array of plant diseases, symptom expression, causal agents and interactions with environmental factors encountered in the difficult task of identification. May be repeated to a maximum of nine credits. Lecture, one hour laboratory, six hours. Prereg: PPA 400G or equivalent consent of instructor. (Same as PLS 640.)

PPA 641 ESSENTIALS OF PLANT DISEASE EPIDEMIOLOGY

An examination of the fundamental concepts of plant disease development at the population level. Emphasis will be given to the influence of host resistance and other selective forces on pathogen population dynamics. Prereg: PPA 400G, PPA 500, PPA 660, PPA 640 can be concurrent.

PPA 671 ADVANCED PLANT ViroLOGY

Molecular basis of plant virus infection of plants. Virus replication and spread. Virus control strategies. Prereg: PPA 400G, PPA 500, PPA 660. PPA 640 can be concurrent.

PPA 672 ADVANCED PLANT MYCOLOGY

Advanced study of the fungal life cycle and life style (including metabolism, developmental biology, cell biology, ecology, and reproductive processes). Prereg: PPA 400G, PPA 500, PPA 660, PPA 640 can be concurrent.

PPA 673 ADVANCED PLANT DISEASE RESISTANCE

Mechanisms underlying pathogen suppression and virulence in interactions causing plant disease, and symbiotic compatibility in mutualisms. Prereg: PPA 500, PPA 550, PPA 600, PPA 660, PPA 640 can be concurrent.

PPA 674 MASTER'S THESIS RESEARCH

Half-time to full-time work may be repeated to a maximum of six semesters. Prereg: PPA 749. All course work toward the degree must be completed before the thesis can be written. Prereg: Consent of instructor.

PPA 675 DISSERTATION RESEARCH

Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereg: Registration for two full-time semesters following the successful completion of the qualifying exams. Prereg: PPA 675. PPA 676 can be concurrent.

PPA 676 DISSERTATION RESIDENCY CREDIT

Residency credit for doctoral students enrolled in the qualifying examination. Students may register for this course in the semester of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

PPA 679 RESIDENCE CREDIT FOR THE DOCTORAL EXAM

May be repeated indefinitely.

PPA 770 PLANT PATHOLOGY SEMINAR

Reports and discussion of problems and investigations of problems in plant pathology. May be repeated to a maximum of four credits. Prereg: PPA 660 or equivalent consent of instructor.

PPA 784 SPECIAL PROBLEMS IN PLANT PATHOLOGY

May be repeated to a maximum of nine credits. Prereg: PPA 400G or equivalent consent of instructor. (Same as PLS 784.)

PPA 794 RESEARCH IN PLANT PATHOLOGY

May be repeated to a maximum of 12 credits. Prereg: PPA 400G or equivalent consent of instructor.

PPA 799 TEACHING IN PLANT PATHOLOGY

Discussion of, and experience with, various instructional techniques as it relates to the human environment. Offered on a pass/fail basis only.

PPA 799 TEACHING IN PLANT PATHOLOGY

A survey of historical and current political process in the United States, with emphasis on the Constitution, the President, Congress, and the judicial system. Prereg: None.

PPA 210 INTRODUCTION TO COMPARATIVE POLITICS

A general introduction to the domestic politics of countries in the various regions of the world. May be repeated to understand why political processes and issues differ across developed and developing nations. Students also learn how domestic politics are shaped by international institutions and by national integration into a global economy.

PLS 212 CULTURE AND POLITICS IN THE THIRD WORLD

This course analyzes the politics of selected states in Africa, Asia, and Latin America. Various bases of political cleavage and cooperation will be examined: ethnicity, language, social class and ideology. Cultural differences between Africa, Asia and Latin America will be identified and their political implications explored, as well as differences across cultural areas.

PPS 235 WORLD POLITICS

A study of the most significant problems of world politics, including the fundamental problems of the problems of the world, the techniques and instruments of power politics, and the conflicting interests in organizing world peace.

PLS 240 INTRODUCTION TO POLITICAL THEORY

An introduction to modern political thought as it relates to debates over the meaning of democracy, citizenship, justice, authority, and identity. Repercussions and discussion center on the themes and ideologies dominant in Western political theory, but also will explore contemporary challenges to that tradition, such as feminist political theory, the work of theorists concerned with what is popularly called globalization.

PPS 360 POLITICS OF LAW AND COURTS

A survey of the role of courts in the precolonial African political system and society and of factors that shape the meaning of the law, focusing especially on the judiciary. The course will outline the structure of the judicial system including both its legal and administrative structures, the techniques and instruments of power politics, and the conflicting interests in organizing world peace.

PLS 372 INTRODUCTION TO POLITICAL ANALYSIS

Introduction to the basic knowledge of research methodology in political science; a review of methods of data collection; historical, quantitative and comparative techniques of analysis. Prereg: UN2 status; PPS majors only.

PPS 391 SPECIAL TOPICS IN POLITICAL SCIENCE

Course will focus on selected topics drawn from various areas of political science taught by faculty members with special interests and competence. May be repeated for a maximum of 12 credits. Prereg: UN2 status.

PPS 395 INDEPENDENT WORK

Research designed for students participating in an off-campus local or federal internship program with which the political science department is associated. The student must have approval of the department chairperson upon the recommendation of the Committee on Internship and Experiential Education to take the course, negotiate a learning contract with a departmental academic supervisor, and provide the department with a report or a paper on his internship. Pass/Fail only. May be repeated to a maximum of 12 credits.

PPS 410 TOPICS IN REGIONAL POLITICS (Subtitle required)

A survey of politics and government in one region of the world. The course will consider the region’s unique political character, but also explain how and why nations within the region differ from each other politically. PS Some sections will compare and contrast a region of political science taught by faculty members with special interests and competence. May be repeated for a maximum of 12 credits. Prereg: UN2 status.

PPS 415 COMPARATIVE JUDICIAL POLITICS

A survey of the judicial process across a wide variety of political systems. Emphasis will be on topics such as why different nations or regions evolve different types of courts, how the processes of law-making and judicial decision-making differ, and the behavior of judges serving in these various court systems.

PPS 417 SURVEY OF BETRAYAL, TRUST, AND CALLING

A survey of sub-Saharan governance and politics intended to give the student a broad knowledge about the scope of African political, socioeconomic African political science with the political life of the major European colonial powers, and politics of developmental politics. Prereg: PS 210 or 212. (Same as AAS 417G.)
PS 419G THE GOVERNMENTS AND POLITICS OF CHINA AND JAPAN. (3)
A comparative analysis of the modern political experiences of China and Japan, exploring their responses to the West, the development of democratic institutions in each country, and the consequences of those institutional forms for the future of the region.

PS 420G GOVERNMENTS AND POLITICS OF SOUTH ASIA. (3)
A comparative analysis of contemporary political development in India, Pakistan, Bangladesh, and Sri Lanka, with emphasis on political culture, institutions, participation, and capabilities of these political systems. Prereq: PS 210 or 212.

PS 421G AMERICAN GOVERNMENT AND POLITICAL THEORY. (3)
This course is meant to provide an opportunity for advanced undergraduates and graduate students to (1) understand the historical, political, and intellectual context of the contemporary political culture in the United States, (2) learn what governs in contemporary politics and the structures through which they rule, (3) to assess the "dynam- ics" of political behavior contributing to political change vis-a-vis political continuity. Prereq: Junior or senior standing.

PS 423G LATIN AMERICAN GOVERNMENT AND POLITICS. (3)
A study of contemporary Latin American political institutions and of the dynamics of the Latin American political process. Prereq: PS 210 or 212.

PS 426G GOVERNMENT AND POLITICS IN THE SOVIET POST-SOVIET STATES. (3)
Analysis of political development in the Soviet Union with emphasis on party-government relations, Communist ideology, and major political developments in Eastern Europe. Prereq: PS 210 or 212.

PS 430G THE CONDUCT OF AMERICAN FOREIGN RELATIONS. (3)
The conduct of American foreign policy from several analytic perspectives, with somewhat more emphasis on inputs and processes than on substantive outputs. Prereq: PS 101 or consent of instructor.

PS 440G SECURITY IN THE UNITED STATES. (3)
The organization and formulation of military policy; the theory and practice of deterrence; and the problems of disarmament and arms control. Prereq: PS 215 or consent of instructor.

PS 432G AMERICAN STATE ECONOMIC RELATIONS. (3)
An examination of the foreign policy from several analytic perspectives, with somewhat more emphasis on inputs and processes than on substantive outputs. Prereq: PS 101 or consent of instructor.

PS 439G POLITICAL INSTITUTIONS OF INTERNATIONAL ECONOMIC RELATIONS. (3)
An examination of the potential and ongoing theoretical approaches to global political economy. These approaches are used to analyze various issues of global political economy, such as the international monetary system, multinational corporations, foreign aid, and trade. Prereq: PS 235.

PS 435G INTERNATIONAL ORGANIZATION. (3)
A study of international organizations in the 20th Century. Examination of the increasing size, complexity, and diversity of contemporary global and regional international organizations. The course places considerable emphasis on the Warsaw Pact member.

PS 437G DYNAMICS OF INTERNATIONAL LAW. (3)
An examination of the politics of the development of international law and its operation in a multicultural world. Legal principles and international political processes are discussed through illustrative issues areas: management of conflict; distribution of territorial resources; environmental problems; and human rights. Prereq: PS 250 or 360.

PS 439G SPECIAL TOPICS IN INTERNATIONAL RELATIONS. (Subtitle required. Subtitle required.

PS 441G EARLY POLITICAL THEORY. (3)
A study of the development, implementation and impacts of government policies; and the sources of variation in policies adopted by different governmental units. Prereq: PS 101; UN2 status.

PS 443G PSYCHOLOGICAL PROCESS OF PUBLIC POLICY. (3)
An examination of the politics of the development of international law and its operation in a multicultural world. Legal principles and international political processes are discussed through illustrative issues areas: management of conflict; distribution of territorial resources; environmental problems; and human rights. Prereq: PS 250 or 360.

PS 445G APPELLACHIAN POLITICS. (3)
A study of the interrelationships of the Southern Appalachian region and the larger American political system, culture, and economy. Selective examination of public policies and major issues and their impact on the politics of the region.

PS 449G AMERICAN STATE AND LOCAL GOVERNMENT. (3)
A comparative examination of subnational governments, especially at the state and county levels. Special emphasis will be made on the relationship of political culture and economy.

PS 461G CIVIL LIBERTIES. (3)
A study of the philosophy and development of civil liberties in the U.S. Major concentration in the interpretation of constitutional guarantees by the Supreme Court.

PS 463G JUDICIAL POLITICS. (3)
For a survey of the role of public opinion of the judiciary and the influence that it has on the role of public opinion in the Supreme Court. Prereq: PS 101 and UN2 status.

PS 465G CONSTITUTIONAL LAW. (3)
A non-technical introduction to Supreme Court decisions and recent issues relating to separation of powers, federalism, the commerce clause, taxes, criminal justice and other non-civil liberties areas. Prerequisites: course with a grade of C- or better in any Constitutional Law course.

PS 470G AMERICAN POLITICAL PARTIES. (3)
An analysis of American national and state party systems, organization and fundraising sources; and election politics and voting patterns. Prereq: PS 101, UN2 status.

PS 471G RACE, ETHNICITY AND POLITICS. (3)
An examination of race in political life in the American arena. Students will explore the nature of race, racism, and ethnocentrism, as well as their impact on political institutions and public policy. Prerequisites: PS 101 and UN2 status.

PS 475G POLITICAL CAMPAIGNS AND ELECTIONS. (3)
An analysis of individual voting behavior and candidate strategies during presidential and congressional elections. The effect of the media, political attitudes and behaviors, media advertising on the vote decision is examined. Attention is also devoted to candidates' campaign organizations and communication strategies. Prereq: PS 101, UN2 status.

PS 476G LEGISLATIVE PROCESS. (3)
A survey of the development, implementation and impacts of government policies; and the sources of variation in policies adopted by different governmental units. Prereq: PS 101; UN2 status.

PS 479G WOMEN AND POLITICS. (3)
A study of the role of women as political actors in the United States, including the application of American society, and the contribu- tion of government policy to maintaining or changing that status. The political behavior of women at the macro and elite level will be examined.

PS 480G GOVERNMENT AND THE ECONOMY. (3)
This course analyzes the relationship between political and eco- nomic conditions in the modern, democratic, capitalist world. While the focus is primarily upon the United States, other political/economic systems as well as more general theoretical statements will be considered. Prerequisites: PS 101 or equivalent.

PS 484G THE AMERICAN PRESIDENCY. (3)
A course in the American presidency, emphasizing institutional developments and the roles of recent presidents on other governmental institutions, on domestic and foreign policies, and including an examination of the broader context of the executive branch of government. Prereq: PS 101; UN2 status.

PS 489G THE ANALYSIS OF PUBLIC POLICY. (3)
A study of the development, implementation and impacts of govern- ment policies; and the sources of variation in policies adopted by different governmental units. Prereq: PS 101; UN2 status.

PS 490H HONORS IN POLITICAL SCIENCE. (3)
This course will provide, in a seminar setting, the opportunity for students to concentrate on developing and implementing research projects on topics of their own choice. The course will allow discussions of research methods and political science as well as on problems encountered in the research process. Prerequisite: Senior standing with 3.25 overall GPA and 3.50 GPA in major.

PS 492G SEMINAR IN POLITICAL SCIENCE. (3)
Subtitle required.

PS 493G CONFLICT AND cooperation IN LATIN AMERICAN RELATIONS. (3)
An examination of development strategies as determinants of Latin American foreign policies, (2) the origins and political consequences of US trade patterns of the U.S. response to reformism and/or revolutionary change, (4) the role of extra-continental contenders for influence in the Americas, and (3) at least one other relevant Latin-American relations. Prereq: PS 428G or permission of instructor.

PS 545G AMERICAN POLITICAL THOUGHT. (3)
This course will focus on the political thought that formed, and the ways it is involved in major problems of culture, political economy, ideology, and identity. Alternative ideas of work, power, political obligation, science and technology, and related issues are examined. Relationships of theory and practice, public and private, and government and society are analyzed. Prereq: UN3 status.

PS 557G KENTUCKY GOVERNMENT AND POLITICS. (3)
A study of the political processes and political institutions of Kentucky, how it should be interpreted in modern times.

PS 566 CONSTITUTIONAL INTERPRETATION. (3)
A study of the political and the philosophical origins of the U.S. Constitution, and the compelling questions that philosophers about the process of constitutional interpretation. Prereq: For undergraduates, PS 465G, or PHIL 485.

PS 572G INTRODUCTION TO QUANTITATIVE POLITICAL METHODOLOGY. (3)
Introduction to quantitative research methods used by political scientists. Prerequisite: PS 245 and advanced data sets and statistical software commonly used in political science, and basic analysis techniques used to analyze political data. Prereq: For undergraduates, PS 245.

PS 580 THE BUDGETARY PROCESS. (3)
A study of the development of budgetary techniques in the United States with particular attention to the roles of Congress. Prerequisites: PS 101 and UN2 status.

PS 615 COMPARATIVE POLITICAL THEORY AND METHOD. (3)
A study of the evolution and development of comparative govern- ment research in the discipline with emphasis on the relationship between the formulation, application, and limitations of the theories, taxonomies and conceptual frameworks employed in comparative re- search.

PS 671 STRATEGIES OF INQUIRY IN POLITICAL SCIENCE. (3)
Analytical research paradigms for political science, and investigating foundations of scientific inquiry. Emphasis on topics such as explanation, concept formation, the construction and function of theories.

PS 672 INTRODUCTION TO TECHNIQUES OF POLITICAL RESEARCH. (3)
A course designed to familiarize students with data analysis, coding, and processing applicable to political research are introduced. Various statistical tech- niques of data analysis are discussed and applied to political data. Prerequisites: PS 101 or 103, familiarity with appropriate statistical methods and consent of instructor.

PS 687G WOMEN IN THE POLITICAL PROCESS. (3)
A survey of the various approaches to the study of public policy impacts. Special emphasis will be given to the norma- tive and ethical implications of alternative conceptions of the political process and the role of the policy analyst.

PS 689G PROSEMINAR IN PUBLIC ADMINISTRATION AND PUBLIC MANAGEMENT. (3)
A survey of recent literature on public administration and public policy, including organizational theory, the policy environment of administration, public administration in the executive branch, public administration policy, and public management.

PS 780G PROSEMINAR IN CONTEMPORARY POLITICAL THEORY. (3)
An examination of contemporary political theories, especially their relationships to theoretical issues in policy analysis. Major problems that unfold will be discussed.

PS 711 TOPICAL SEMINAR IN POLITICAL SCIENCE. (Subtitle required.

PS 732 COMPARATIVE FOREIGN POLICY (Subtitle required.

PS 733 INTERNATIONAL SECURITY. (3)
The seminar examines international security affairs, with an em- phasis on the external sources of conflict and international conflict, the patterns of conflict, and methods of conflict resolution and regulation, both within states and among them. Prereq: Consent of Instructor.

PS 734 GREAT BOOKS OF WORLD POLITICS. (3)
Overview of classic texts on war and statecraft. Prereq: Consent of instructor. (Same as DIS 710.)
PSY 100 INTRODUCTION TO PSYCHOLOGY. (3) An introduction to the study of behavior covering theories, methods and findings in psychology. Topics covered will include the biological foundations of behavior, learning, perception, motivation, personality, developmental, and social behavior. This course is a prerequisite to a significant number of courses in this and related areas of study. Lecture, three hours a week. PSY 100 is the prerequisite for all other psychology courses.

PSY 195 ORIENTATION TO PSYCHOLOGY. (1) An orientation to educational issues and career planning for students who have declared a psychology major. Topics include current critical issues and problems, ethical issues, professional resources and issues, and educational planning. Pass/Fail only. Prerequisite: Declared major in Psychology. PSY 100 is the prerequisite for all other psychology courses.

PSY 215 EXPERIMENTAL PSYCHOLOGY. (4) A study of the application of scientific methods to psychological research. Emphasis will be placed on the critical evaluation of contemporary research in experimental psychology. Particular attention is focused on the design, execution, and written report of laboratory experiments. Three hours lecture, one hour laboratory. Prerequisite: PSY 100 and sophomore standing, or consent of instructor. PSY 216 is the prerequisite for all other psychology courses.

PSY 216 APPLICATIONS OF STATISTICS IN PSYCHOLOGY. (3) An introduction to statistical procedures used in making decisions based on psychological data. May not be used to satisfy the laboratory requirement of the College of Arts and Sciences. Lecture, three hours; laboratory, two hours. Prerequisite: PSY 100.

PSY 223 DEVELOPMENTAL PSYCHOLOGY. (3) A study of the development of an individual from conception through youth. Emphasis is on the various theories that have been proposed to explain the processes of development as seen in physical and social behavior; and methods of assessment. This course is a prerequisite for all other psychology courses.

PSY 311 LEARNING AND COGNITION. (3) Theory and experimental techniques in the study of learning and cognition. Emphasis on research in the biological basis of learning, perceptual, cognitive and motor learning; attention, memory, reasoning, thinking, and language. Prerequisite: PSY 100 or equivalent.

PSY 302 PSYCHOLOGY IN BUSINESS AND INDUSTRY. (3) Survey of the many applications of psychological principles and methods to problems in business and industry. Topics include consumer research and marketing, personnel selection, performance appraisal, employee training, motivation, leadership, dynamics of work groups, job stress, and person-machine interactions. Prerequisite: PSY 100 and PSY 215.

PSY 331 PERSONALITY AND INDIVIDUAL DIFFERENCES. (3) An introduction to the individual differences in personality and behavior. May not be used to satisfy the laboratory requirement of the College of Arts and Sciences. Lecture, three hours per week; laboratory, two hours per week. Prerequisite: PSY 100 and PSY 215.

PSY 334 SOCIAL PSYCHOLOGY AND CULTURAL PROCESSES. (3) A selective survey of classic and contemporary theories and research in social psychology from a multicultural perspective. Topics will include social perception, the self, attitudes, aggression, prejudice, and group processes. Credit is not given to students who already have credit for PSY 504. Prerequisite: PSY 100 and PSY 215 or PSY 216.

PSY 331 THE PSYCHOLOGY OF ADJUSTMENT. (3) The individual’s psychological adjustment to society is analyzed from a mental health perspective. The course provides a general overview of the many factors influencing individual behavior, including social, political, and cultural factors. Prerequisite: PSY 100. Open only to students who have had CH 520.

PSY 344 SOCIAL PSYCHOLOGY. (3) Theoretical and empirical analysis of individual behavior in the social setting with particular emphasis on social learning, motivation, and the measurement, formation, and change of attitudes. (Note: Not open for graduate credit to graduate students in Psychology and Sociology.) Credit is not given to students who already have credit for PSY 314. Prerequisite: PSY 100.

PSY 385 INDEPENDENT WORK IN PSYCHOLOGY. (1-3) Designed for advanced students who assist faculty members on research projects that are conducted in close regular consultation with the faculty member. May be repeated to a maximum of 12 credits. Pass/Fail only. Prerequisite: Major in the department with a standing of 3.0 in psychology courses. A signed contract between student and faculty member must be filed in the department office prior to enrollment in the course. PSY 385 is the prerequisite for all other psychology courses.

PSY 399 FIELD BASED COMMUNITY BASED EDUCATION. (1-4) A community-based or field-based experience in psychology, under the supervision of a faculty member. May be repeated to a maximum of 12 credits (if applicable). Pass/Fail only. Prerequisite: Consent of instructor. Includes a lecture, a laboratory, and a required contract with the department office and Office for Experiential Education; completion of 12 hours in psychology with a GPA of 2.5 in psychology courses. May not be used to satisfy the laboratory requirement of the College of Arts and Sciences. Prerequisite: PSY 215, 216, and PSY 314.

PSY 427 COGNITIVE PROCESSES. (4) A general introduction to cognitive psychology through lecture and lab. Emphasis is placed on theoretical issues in memory, perception, processing, memory, decision-making, and language and the means by which cognitive psychology is applied to our lives. The lab is designed to give students hands-on experience related to research equipment and methodology in cognitive psychology. Lecture, three hours per week; laboratory, two hours per week. Prerequisite: PSY 215, 216, and PSY 314.

PSY 430 RESEARCH IN PERSONALITY. (3) A lecture-lab course intended to introduce students to the field of contemporary personality psychology. Includes a survey of the methods used and issues examined by current personality psychologists. Lectures will focus on selected current theories and issues, whereas labs will involve an in-depth examination of scale construction and correlational approaches to personality research. Lecture/discussion, three hours per week; laboratory, two hours per week. Prerequisite: PSY 215, 216, and PSY 313.

PSY 500 HISTORICAL PROBLEMS IN PSYCHOLOGY. (3) An advanced course in research methods in psychology. Emphasis will be placed on learning and applying experimental and observational research methods and statistical procedures. Students will become a laboratory component, students will design, conduct, and write up their own psychological study. Lecture/discussion, three hours per week, laboratory, two hours per week. Prerequisite: Declared major in PSY 215, 216, and 314.

PSY 545 BEHAVIORAL NEUROSCIENCE. (4) An intensive investigation of the neural basis of behavior using an integrated lecture and laboratory format. Principles of neuroanatomy, and the role of neurotransmitters and neurohormones are applied to a variety of processes such as perception, movement, learning, motivation, and emotion. Lecture, three hours per week; laboratory, two hours per week. Prerequisite: Declared major in PSY 215, 216, and 314.

PSY 546 DRUGS AND BEHAVIOR. (3) A study of the many factors involved in a physiological perspective. Major emphasis is on the psychoactive drugs encountered in experimental, clinical, and social settings. Prerequisite: PSY 215 and BIO 105, or BIO 107 equivalent.

PSY 440 PROCESSES OF PSYCHOLOGICAL DEVELOPMENT. (3) An in-depth examination of the major theoretical themes and their implications and the logic and methods of the scientific study of developmental psychology. The course is organized around theoretical perspectives that are used to the study of development among children and adults. Each of the theoretical component, students will engage in demonstration exercises designed to illustrate selected perspectives. Each of these exercises will require students to be engaged and written reports. Lecture/discussion, three hours per week; laboratory, two hours per week. Prerequisite: Declared major in Psychology, PSY 215, 216, 312, BIO 103, or consent of instructor.

PSY 495 SENIOR THESIS SEMINAR. (1-3) This course will focus on the oral and written presentation of research conducted as a senior. The course will fulfill the senior seminar requirement of the College of Arts and Sciences. Students will complete their thesis research, prepare a written report, and present it to the seminar. Prerequisite: PSY 495.

PSY 659 OR FIELD INTERNSHIP IN PSYCHOLOGY. (3) Designed as a senior-capstone course for psychology majors to develop teaching, research, and professional skills in a field-based setting. Field placement experience under the supervision of a psychology faculty member. Students spend nine hours weekly in the placement site and meet weekly as a group with the instructor to discuss readings and other assignments. Prerequisite: Declared major in Psychology, seniors only; consent of instructor; contract with department and faculty supervisor.

PSY 500 HISTORY AND SYSTEMS OF PSYCHOLOGY. (3) The course reviews the historical context, influences, and individuals who have shaped the development of psychology and systems. Readings and discussions of original sources and contemporary research are emphasized. Prerequisite: 28 hours of Psychology.

PSY 533 ABNORMAL PSYCHOLOGY. (3) A study of the major mental disorders, especially the psychoanalytic and psychodynamic and, sociocultural factors which contribute to their causation. Prerequisite: PSY 100 plus the following: PSY 216 or 223.

PSY 534 CHILD PSYCHOPATHOLOGY. (3) The course is designed to cover issues in the classification, assessment, and treatment of the major childhood behavior disorders, including attention deficit and conduct disorders, learning disabilities, depression, and child abuse. In addition, issues relating to parent-child and sibling dynamics will be covered. Prerequisite: PSY 215; and either PSY 223 or FAM 252.

PSY 535 PSYCHOLOGICAL TESTING. (3) A general orientation to the field of psychological testing. Introduces the major principles and methods used in conducting a survey of the various kinds of psychological tests. Prerequisite: PSY 100 and 215.

PSY 552 ANIMAL BEHAVIOR. (3) Experimental techniques, principles, and theories applied to the field of animal behavior. Topics include comparative cognition, learning and memory, ethology, reproductive strategies, evolutionary psychology, and sociobiology. A required laboratory component consists of applications of techniques used to study animal behavior. Students will design and conduct experiments, organize and discuss results, and explore theoretical and applied implications. Prerequisite: Declared major in Psychology, PSY 215, 216, 311, or consent of instructor.
PSY 586 BIOLOGY OF MOTIVATION. (3)
An examination of the origins of behavior, motivation, and nonhuman behavior from a biological perspective. Special attention is paid to the interaction between genetic inheritance, individual experience, and physiology in the development and regulation of sex and regulatory behaviors. Prereq: PSY 215 and BIO 103, or BIO 150 or equivalent.

PSY 561 ADVANCED TOPICS IN FOUNDATIONS OF PSYCHOLOGY (Subtitle required).
Selected topics in clinical psychology such as health psychology and introduction to clinical psychology. Course topics will vary from year to year and may include: theories of health; theories of reading; communication and cooperation; models of health and environmental psychology. May be repeated to a maximum of six credits. Prereq: Completion of 28 hours in psychology, including PSY 460, or consent of instructor.

PSY 626 PROSEMINAR IN CLINICAL PSYCHOLOGY. (3)
An intensive treatment of theoretical and experimental literature, both classical and contemporary, in developmental psychology. Prereq: Admission to the graduate program in psychology or consent of instructor.

PSY 625 PROSEMINAR IN DEVELOPMENTAL PSYCHOLOGY. (3)
An intensive examination of the methods and data of social psychology with emphasis on social attitudes. Prereq: PSY 344 or 314 or equivalent.

PSY 748 MASTER'S THESIS RESEARCH. (0-12)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 709 resident credit following the successful completion of the qualifying examinations. May be repeated to a maximum of six seminars. Prereq: Consent of instructor. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

PSY 632 CLINICAL METHODOLOGY II. (2)
Supervised experience in the techniques of psychological assessment. Prereq: Concurrent enrollment in PSY 630.

PSY 749 DISSERTATION RESEARCH. (0-12)
Supervised research for dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 709 resident credit following the successful completion of the qualifying examination. May be repeated to a maximum of six credits. Prereq: Consent of instructor. This course may be selected to fulfill requirements in psychology and physiology graduate programs. (Same as PSY 766.)

PSY 776 DISSERTATION RESIDENCY CREDIT. (2)
Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

PSY 786 RESIDENCE CREDIT FOR DOCTORAL DEGREE. (0-12)
May be repeated indefinitely.

PSY 772 TOPICAL SEMINAR IN LEARNING. (3)
The study of selected topics in the learning area with emphasis on the recent experimental and theoretical literature. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

PSY 770 TOPICAL SEMINAR IN INSOC PSYCHOLoGY. (3)
An advanced seminar in selected topics in human development, including cognition, learning, language, personality, socialization, life span issues, and developmental aspects of psychopathology. Prereq: Admission to graduate program in psychology, or consent of instructor. May be repeated to a maximum of six credits.

PSY 780 PROBLEMS IN PSYCHOLOGY. (1-3)
Number is used for topical seminars taught on an experimental basis or covering special material that may not be presented again. May be repeated to a maximum of six credits. Prereq: Consent of instructor. (Same as SOC 779.)

PSY 788 RESEARCH PARTICIPATION. (1-3)
Emphasis on the team approach to research. Designed primarily for first-year graduate students. May be repeated to a maximum of four credits for a maximum of two years. Prereq: Enrollment in the graduate program in psychology.

PSY 790 RESEARCH IN PSYCHOLOGY. (1-12)
An intensive study of three hours per week is required on research conducted in consultation with the instructor. May be repeated as necessary with the approval of the Director of Graduate Studies.

PT Physical Therapy

PT 603 PHARMACOLOGY I. (1)
Fundamental concepts of pharmacology and their impact on the physical therapy management of patients. This course focuses on the integration of basic science, research, and clinical intervention. Prereq: Admission to the Physical Therapy Professional program and successful completion of the spring and summer semesters in the first year.

PT 604 PHARMACOLOGY II. (1)
This course will build on the material covered in PT 603. Pharmacology I, focusing on how drug classes influence rehabilitation treatment strategies. Prereq: Successful completion of PT 603.

PT 605 WELLNESS AND SPORTS NUTRITION. (1)
Emphasis is directed toward nutrition as applied to prevention of injuries and rehabilitation. Essential nutrients and their role in body composition and energy expenditure, the metabolic basis of weight management, and their role in recovering and preparing for future exercise. Targeted focus areas are: body composi- tion and energy expenditure, the metabolic basis of weight manage- ment, and successful completion of PT 603, Pharmacology I, and successful completion of the spring and summer semesters in the first year.

PT 606 ETHICS IN CLINICAL RESEARCH. (1)
Students will examine ethical issues in biomedical research using a case-study approach. Representative issues addressed may include data collection and retention, consent forms, breakdown of grants and manuscripts, scientific misconduct, and informed consent. Prereq: Graduate student status. (Same as CD/CGL/CNU/RAS 610.)
PT 628 GERONTOLOGY FOR PHYSICAL THERAPY AND BIOETHICS. (3) This course is designed to present a broad series of topics central to the complex management needs in the biomedical, physical, psychological, and social aspects of aging. The course will focus on interdisciplinary concepts and techniques that are essential to the delivery of care and professional development for those with functional limitations and in health care promotion and prevention. Prereq: Admission to the Physical Therapy professional program and successful completion of the first year.

PT 629 MANAGEMENT OF VASCULAR INTERVENTIONS. (3) This course is the second clinical internship. Structure is similar to PT 837 but students continue to increase their repertoire of clinical skills and meet higher passing standards while receiving two additional weeks of clinical experience. Students will continue to perform physical therapy evaluation, examination, treatment and discharge. Offered on a pass/fail basis only. Prereq: Admission to the Physical Therapy professional program and successful completion of the first two years of the professional program.

PT 630 PHYSICAL THERAPY INTERNSHIP III. (2) This course is the third clinical internship. Structure is similar to PT 837 and PT 838 but students continue to increase their repertoire of clinical skills and meet higher passing standards. Students will continue to perform physical therapy evaluation, examination, treatment and discharge. Offered on a pass/fail basis only. Prereq: Admission to the Physical Therapy professional program and successful completion of the first two years of the professional program.

PT 631 PHYSICAL THERAPY INTERNSHIP IV. (8) This course consists of a 12 week internship in which the students are assigned to clinical facilities throughout Kentucky and beyond. Prereq: Course work preceding this in the professional program.

PT 646 MEDICAL AND PHYSICAL THERAPY MANAGEMENT OF ORTHOPEDICS. (3) An introduction to medical procedures, including history, physical exam, laboratory data, radiographic film and medical and physical therapy management of orthopedic problems, including fractures, soft tissue injuries, scoliosis, joint replacements, muscle transplants and tendon repairs, will be presented. Prereq: Admission to the Physical Therapy professional program and successful completion of the first year.

PT 650 INDEPENDENT STUDY

PT 655 NEUROMOTOR DEVELOPMENT. (3) This course is intended to introduce students to the process of turning an independent work devoted to specific problems or area of interest in physical therapy. Work to be supervised by a graduate faculty member proficient in the area under study. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

PT 668 RESEARCH TOPICS IN PHYSICAL THERAPY: ANALYSIS AND INTERVENTION. (1-3) This course is intended to introduce the student to methods of analyzing data and problems of writing a scientific paper for publication. Students will analyze data they have collected as it relates to their research questions. Their written manuscripts will be due at the end of this course. May be repeated to a maximum of three credits. Prereq: Admission to the Physical Therapy professional program and successful completion of the first year or permission of the instructor.

PT 669 RESEARCH TOPICS IN PHYSICAL THERAPY: OUTCOMES. (1-3) This course is intended to introduce students to the process of turning an independent work devoted to specific problems or area of interest in physical therapy. Work to be supervised by a graduate faculty member proficient in the area under study. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

PT 705 SKELETAL MUSCLE PHYSIOLOGY/PATHOLOGY. (3) This course is designed to present a broad series of topics central to the complex management needs in the biomedical, physical, psychological, and social aspects of aging. The course will focus on interdisciplinary concepts and techniques that are essential to the delivery of care and professional development for those with functional limitations and in health care promotion and prevention. Prereq: Admission to the Physical Therapy professional program and successful completion of the first year.

PT 748 MASTER’S THESIS RESEARCH. (0) Half-time to full-time on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed. Prereq: Consent of instructor.

PT 766 RESIDENCE CREDIT FOR THE MASTER’S THESIS. (1-4) May be repeated to a maximum of 12 hours. Prereq: Consent of instructor.

PT 770 SEMINAR IN PHYSICAL THERAPY. (3) Each semester a contemporary area of physical therapy will be studied intensively. Lecture, two to three hours per week; laboratory, zero to two hours per week. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

PT 805 NORMAL FUNCTIONAL ANATOMY. (3) A regional study of the normal functional aspects of the neuromusculoskeletal system and human locomotion. This course runs during the entire 12-week summer term. Prereq: Admission to the Physical Therapy professional program and successful completion of the second year of the professional program.

PT 814 FOUNDATIONAL SKILLS. (3) A course that will present specific physical therapy procedures, basic to the delivery of care and professional development. Prereq: Admission to the Physical Therapy education program and consent of the instructor.

PT 815 BASIC CLINICAL SKILLS. (3) Theory, techniques, rationale, physiological effects, and indications of basic physical therapeutic procedures, such as therapeutic exercise, cryotherapy, muscle testing and goniometry evaluations, gait analysis, muscle function are presented in lecture. Techniques are demonstrated and practiced in small groups in the Physical Therapy professional program and successful completion of the spring semester (first year) of the professional program.

PT 821 MANAGEMENT OF VASCULAR INTERVENTIONS AND INTEGRATIVE DISORDERS. (2) The theoretic and clinical framework for physical therapy assessment and management of patients with vascular integrative system, (i.e., open wounds, burns, etc.) are discussed. The student will utilize a problem solving approach to select, implement tests and measurements as well as therapeutic interventions. Prereq: Admission to the Physical Therapy professional program and successful completion of the first year.

PT 826 ORTHOTICS. (3) This course will prepare the student to perform physical therapy evaluation and provide patient management as part of a prosthetic or orthotic team. Lecture, 18 hours; laboratory, 34 hours. Prereq: Admission to the Physical Therapy professional program and successful completion of the first year.

PT 827 SPINAL CORD INJURY. (2) This course will apply material and techniques from prior classes to the acute and chronic treatment of the spinal cord injured individual. Use of orthotics, body mechanics, knowledge of anatomy and physiology and program planning will play major roles in the course. In addition, you will be encouraged to view the patient as a whole. Experiences will include patient demonstrations, vide Casses, and personal experiences that will help you appreciate the lifestyle change that is inevitable after a severe injury. The course will be structured in the Physical Therapy professional program and successful completion of the first year.

PT 830 DIAGNOSTIC IMAGING, SCREENING AND INSTRUMENTATION. (2) This course presents diagnostic screening processes utilized in PT. Included are the applications of diagnostic imaging instrumentation. Prereq: Successful completion of the previous two year courses in physical therapy.

PT 831 CLINICAL NEUROMUSCULAR PHYSIOLOGY. (2) The study of the regional organization of the brain and spinal cord, the ways in which they connect and how these connectivities influence human behavior with emphasis on effects of disease states on normal brain and spinal cord function will be discussed. Prereq: Admission to the Physical Therapy professional program and successful completion of the spring and summer semesters in the first year.

PT 834 INTRODUCTION TO PHYSICAL THERAPY AND CLINICAL DECISION MAKING. (3) An orientation to the profession of physical therapy including history, professional organization, role in health care, elementary patient care skills, use of the medical library and professional documentation. Bioethics will be introduced in relationship to moral issues in health care. Prereq: Admission to the Physical Therapy professional program.

PT 835 PHYSICAL THERAPY CLERKSHIP I. (1) The student receives campus based clinical and classroom prepara-
Course Descriptions

*RPT77 CARDIOPULMONARY PHYSICAL THERAPY* (3)
A combined lecture, laboratory series about the theoretical and practical foundations necessary for entry-level physical therapists to deliver care for individuals with acute pulmonary or secondary cardiac and/or pulmonary dysfunction. Case studies, demonstrations and laboratory experiences are used to help the student acquire knowledge and skill at an advanced level. Students will choose one specialty area out of a selection of elective topics for these courses that vary each year based on student interest and faculty expertise. Prereq: Admission to transitional DPT track and completion of a CAPTE accredited professional – entry level physical therapy program and successful achievement of licensure. Applicants will be required to have completed a minimum of 9 months of clinical activity as a professional physical therapist and PT 902.

PT807 INTRODUCTION TO PHYSICAL THERAPY III: RELATIONSHIPS (1)
An introduction to basic management techniques including purpose, goals and objectives, task statements and analysis, position description, insurance; placement, service delivery. This course runs during the entire 12-week summer term. Prereq: Admission to the Physical Therapist professional program and successful completion of the first year of program.

PT886 ADVANCED PHYSICAL THERAPY MANAGEMENT (3)
Emphasis is placed on operational aspects of physical therapy department including relationship to total facility operation, designing and implementing department budgets, salaries, fees, personnel policies, records, data processing, budget process, medical-legal implication, continuing education, and the consultative process. Prereq: Admission to the Physical Therapist professional program and successful completion of the first year of program.

#PT902 INTEGRATION OF EVIDENCE-BASED PRACTICE. (3)
The core skill of the physical therapist is the participant knowledge and hands-on experience in the integration of an evidence-based approach into practice. Students will learn how to critically review the literature and apply this to their clinical practice. Prereq: Admission to transitional DPT track and completion of a CAPTE accredited professional – entry level physical therapy program and successful achievement of licensure. Applicants will be required to have completed a minimum of 9 months of clinical activity as a professional physical therapist and PT 902.

#PT903 THERAPY DIAGNOSIS AND SCREENING. (3)
This course is designed to provide the PT practitioner with increased expertise in the interpretation of multidisciplinary tests, studies, measures, and screens in order to enhance PT diagnostic and screening skills. Instrumentation related to imaging techniques such as radiology, magnetic resonance, PTJ scans, and ultrasound will be addressed. In addition, specific foci will include nerve conduction velocity examination, as well as the use of the computer enhanced equipment such as Scanning Box, BITE. Neuroimaging stressing strength, endurance, balance and function. Prereq: Admission to transitional DPT track and completion of a CAPTE accredited professional – entry level physical therapy program and successful achievement of licensure. Applicants will be required to have completed a minimum of 9 months of clinical activity as a professional physical therapist and PT 902.

#PT908 CLINICAL DECISION MAKING FOR PATIENT PROBLEMS I (3)
This course is designed to enhance the diagnosis and management skills of PT practitioners in providing care to individuals with complex problems related to chronic illness and/or neuromuscular pathology. This includes deepening practitioners’ knowledge base regarding pathology and clinical application, as well as enhancing their understanding regarding biopsychosocial – spiritual aspects of coping and adaptation as experienced by patients with multiple diagnoses and problems. Foundational material related to pharmacology, reimbursement, care environments, and cardiopulmonary pathology and management will be presented. Prereq: Admission to transitional DPT track and completion of a CAPTE accredited professional – entry level physical therapy program and successful achievement of licensure. Applicants will be required to have completed a minimum of 9 months of clinical activity as a professional physical therapist and PT 902.

#PT910 CLINICAL DECISION MAKING FOR PATIENT PROBLEMS II (3)
This course is designed to enhance the diagnosis and management skills of PT practitioners in providing care to individuals with complex problems related to chronic illness and/or neuromuscular pathology. This includes deepening practitioners’ knowledge base regarding pathology and clinical application, as well as enhancing their understanding regarding biopsychosocial – spiritual aspects of coping and adaptation as experienced by patients with multiple diagnoses and problems. Foundational material related to pharmacology, reimbursement, care environments, and cardiopulmonary pathology and management will be presented. Prereq: Admission to transitional DPT track and completion of a CAPTE accredited professional – entry level physical therapy program and successful achievement of licensure. Applicants will be required to have completed a minimum of 9 months of clinical activity as a professional physical therapist and PT 902.

#PT912 ADVANCED ELECTIVES. (3)
This course is designed to allow the student to select an area of special interest for in-depth investigation. The course work is designed to allow acquisition of knowledge and skill at an advanced level.

#PT915 RAPID DECISION MAKING IN EMERGENCY SERVICING AIDS (3)
This course is designed to enhance the diagnosis and management skills of PT practitioners in providing care to individuals with complex problems related to chronic illness and/or neuromuscular pathology. This includes deepening practitioners’ knowledge base regarding pathology and clinical application, as well as enhancing their understanding regarding biopsychosocial – spiritual aspects of coping and adaptation as experienced by patients with multiple diagnoses and problems. Foundational material related to pharmacology, reimbursement, care environments, and cardiopulmonary pathology and management will be presented. Prereq: Admission to transitional DPT track and completion of a CAPTE accredited professional – entry level physical therapy program and successful achievement of licensure. Applicants will be required to have completed a minimum of 9 months of clinical activity as a professional physical therapist and PT 902.

RC-016 MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES (3)
This course is designed to prepare rehabilitation counselors and social workers to become interpreters of medical information concerning major disabilities and to provide an understanding of the psychosocial factors encountered by the disabled. Focus will be on how these factors affect adjustment to a disability, and on professional practice with the disabled. Topics include concepts of medical and psychosocial aspects of disability which relate to conditions that impair bodily systems and/or structures due to illness or accident that result in permanent and/or chronic functional limitations. Prereq: College level courses in biology and psychology or consent of instructor.

RC-016 MEDICAL AND PSYCHOSOCIAL ASPECTS OF DISABILITIES I (3)
This course is designed to prepare rehabilitation counselors and social workers to become interpreters of medical information concerning major disabilities and to provide an understanding of the psychosocial factors encountered by the disabled. Focus will be on how these factors affect adjustment to a disability, and on professional practice with the disabled. Topics include concepts of medical and psychosocial aspects of disability which relate to conditions that impair bodily systems and/or structures due to illness or accident that result in permanent and/or chronic functional limitations. Prereq: College level courses in biology and psychology or consent of instructor.

RC-030 CULTURAL DIVERSITY IN REHABILITATION COUNSELING (3)
This course is designed to assist students to develop an understanding of factors which relate to race/ethnicity, gender, disability, age, and sexual orientation as these concern participation and successful completion of rehabilitation programs. Emphasis is placed on addressing cultural myths and stereotypes. Case studies and illustrations for counseling purposes from culturally diverse backgrounds will be presented. Prereq: Consent of instructor.

RC-040 CHEMICAL DEPENDENCY IN REHABILITATION COUNSELING (3)
This course is designed to provide students with information about the effects of alcohol and other drug use. Implications for rehabilitation counselors and related specialists; referral and delivery systems; the rehabilitation process; professional issues and ethical considerations. Prereq: Twelve hours of social or behavioral science, or graduate standing, or consent of instructor.

RC-046 TRANSDISCIPLINARY SERVICES FOR YOUNG CHILDREN WITH DISABILITIES (3)
This course will focus on the philosophical issues related to teaching young children with multiple disabilities. Topics related to planning for the population of children, participants in the area of communication, physical and motor development, health, vitality and sensory input will be presented. Strategies presented for planning will include transdisciplinary assessment persons centered planning and activity based instruction. Prereq: EDS 375 and EDS 600. (Same as EDS 546 and SW 546.)

RC-057 COLLABORATION AND INCLUSION IN SCHOOL AND COMMUNITY SETTINGS (3)
This course will focus on the philosophical issues related to teaching young children with multiple disabilities. Topics related to planning for the population of children, participants in the area of communication, physical and motor development, health, vitality and sensory input will be presented. Strategies presented for planning will include transdisciplinary assessment persons centered planning and activity based instruction. Prereq: EDS 375 and EDS 600. (Same as EDS 546 and SW 546.)

RC-059 SPECIAL TOPICS IN REHABILITATION COUNSELING (1-3)
A study of a selected topic within the field of rehabilitation. Topics to be chosen annually in accordance with student needs and interests. May be repeated to a maximum of 3 credits. (Same as EDS 558.)

RC-060 CASE MANAGEMENT IN REHABILITATION COUNSELING (3)
Development of rehabilitation counseling skills and techniques. Understanding of behavior, and implementation of appropriate intervention strategies for facilitating persons with disabilities through the rehabilitation process. Case management techniques, ethics, consultation strategies, and specialized counseling skills development. Prereq: EDP 652 and RC 520 or consent of instructor.
RC 620 VOCATIONAL EVALUATION AND WORK ADJUSTMENT FOR THE SEVERELY DISABLED

(3) Methods and techniques used in determining and enhancing the vocational potential of persons with disabilities. Commercial evaluation systems, expert knowledge, identification, analysis, client readiness techniques, job development, job engineering, employment interview, job placement, evaluation and follow-up. Evaluation of individual workers, self-evaluation, simulation exercises, case studies of workers with disabilities. Prerequisite: Admission to the graduate program in Rehabilitation Sciences. Application of current research data and determine whether these principles hold true for different disabilities. Experience with persons with disabilities. Prerequisites: Consent of instructor and successful completion of RC 610. Students may register for this course in the semester of Residency credit for dissertation research after the qualifying examination. May be repeated to a maximum of six semesters. Prerequisites: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

RC 640 RESEARCH SEMINAR IN BUSINESS AND INDUSTRY

(1) This course is designed to provide students with a comprehensive knowledge of current business and industry environments. Students will develop a professional working relationship between the rehabilitation professional, employers, the insurance industry, and other professionals will be taught. An understanding of the worker compensation related legislation, and other insurance will be presented. The roles and functions of the rehabilitation professional in business rehabilitation counseling will be discussed. Prerequisite: Twelve hours of study in rehabilitation counseling or consent of instructor.

RC 650 REHABILITATION COUNSELING THEORY AND PRACTICE

(3) This is a two semester sequence course. This course is designed to provide an overview of theories of counseling and how they can be applied in a rehabilitation counseling context with regard to persons with disabilities. A goal of this course is to integrate theory with practice. The emphasis in this second course will be on the application of counseling theory to rehabilitation counseling practice with persons who have disabilities. Counseling techniques will be taught in the context of rehabilitation settings. A primary objective is to develop rehabilitation counselors who function as reflective decision makers. Prerequisite: Admission to the rehabilitation counseling program or consent of instructor.

RC 660 REHABILITATION COUNSELING THEORIES AND PRACTICE

(3) This is a two semester course sequence. This course is designed to provide an overview of theories of counseling and how they can be applied in a rehabilitation counseling context with regard to persons with disabilities. A goal of this course is to integrate theory with practice. The emphasis in this second course will be on the application of counseling theory to rehabilitation counseling practice with persons who have disabilities. Counseling techniques will be taught in the context of rehabilitation settings. A primary objective is to develop rehabilitation counselors who function as reflective decision makers. Prerequisite: Admission to the rehabilitation counseling program or consent of instructor.

RC 670 NEUROPLASTICITY IN REHABILITATION

(2) This course will examine the neuroplastic principles utilized by each of the rehabilitation disciplines (PT, OT, SLP) in the context of current research data and determine whether these principles hold true for different disabilities. Experience with persons with disabilities. Prerequisite: Consent of instructor.

RC 712 PHARMACOLOGY IN REHABILITATION

(2-3) This course will provide the basic science background necessary to understand the effects of prescription and over-the-counter medications used in rehabilitation settings and their influence on treatment. Topics will include mechanisms of drug action, side effects, and how age and disease alter those mechanisms. The course will also address newly developing drug treatment strategies, including those in clinical trials. Students will be expected to complete an additional advanced project for 3 credits, as outlined in the syllabus. The advanced project will expand the more interested student to pursue a topic in greater depth. Prerequisite: Admission to the Rehabilitation Sciences Doctoral Program or consent of the instructor.

RHB 740 PEDIATRIC ASSESSMENT: NEONATES TO ADOLESCENTS

(3) Provides information regarding the assessment of children, neonates to adolescents, in areas of gross, fine, oral and motor, and sensory-perceptual skills. Evaluates various qualitative and quantitative measures of motor development, motor control, and activities of daily living in a pediatric population. Investigates the use of assessment tools and protocols, including interdisciplinary teams, including speech/language pathology, and physical and occupational therapy. Prerequisites: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

RHB 742 INTERVENTION STRATEGIES: NEONATES TO ADOLESCENTS

(2) This course will focus on intervention strategies for children with physical disabilities to maximize independence in functional activities. Overview of treatment strategies and the areas of gross, fine, oral and motor, sensory-perceptual, and communication skills. Development of treatment and management protocols for specific disabilities. Prerequisites: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

RHB 744 ADVANCED TOPICS IN MOTOR DEVELOPMENT

(3) This is a two semester course sequence. This course is designed to provide students with a comprehensive knowledge of theories of counseling and how they can be applied in a rehabilitation counseling context with regard to persons with disabilities. A goal of this course is to integrate theory with practice. The emphasis in this second course will be on the application of counseling theory to rehabilitation counseling practice with persons who have disabilities. Counseling techniques will be taught in the context of rehabilitation settings. A primary objective is to develop rehabilitation counselors who function as reflective decision makers. Prerequisite: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

RHB 745 NEUROLOGICAL DISORDERS: ASSESSMENT

(3) This is a two semester course sequence. This course is designed to provide students with a comprehensive knowledge of theories of counseling and how they can be applied in a rehabilitation counseling context with regard to persons with disabilities. A goal of this course is to integrate theory with practice. The emphasis in this second course will be on the application of counseling theory to rehabilitation counseling practice with persons who have disabilities. Counseling techniques will be taught in the context of rehabilitation settings. A primary objective is to develop rehabilitation counselors who function as reflective decision makers. Prerequisite: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

RHB 746 NEUROLOGICAL DISORDERS: INTERVENTION

(2) This course will focus on intervention strategies for children with physical disabilities to maximize independence in functional activities. Overview of treatment strategies and the areas of gross, fine, oral and motor, sensory-perceptual, and communication skills. Development of treatment and management protocols for specific disabilities. Prerequisites: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

RHB 747 NEUROLOGICAL DISORDERS: INTERVENTION THROUGH THE LIFE SPAN

(3) This course will focus on intervention strategies for children with physical disabilities to maximize independence in functional activities. Overview of treatment strategies and the areas of gross, fine, oral and motor, sensory-perceptual, and communication skills. Development of treatment and management protocols for specific disabilities. Prerequisites: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.

RHB 748 RESEARCH APPRENTICESHIP IN REHABILITATION SCIENCES

(1-4) In-depth study of a discipline-specific topic under the direction of a member of the graduate faculty. Emphasis on scientific method including development of a research question, methodology, data collection and analysis of a complete and submitted research project during the course. May be repeated to a maximum of four credits. Prerequisite: Admission to the Rehabilitation Sciences Ph.D. program or consent of the instructor.
RUS 350
Detailed study of complex grammatical forms. Continued emphasis under a different subtitle. Students who will be expected to conduct part of their research using Russian speakers who will be expected to do outside work in Russian. May be repeated under different subtitles to a maximum of six credits.

RUS 463 RUSSIAN FILM AND THEATER: (Subtitle required.)
Reading of classical literature plays as a basis for performing language skills, including class discussions, compositions and translation practice. May be repeated under different subtitles to a maximum of six credits.

RUS 495 ADVANCED INDEPENDENT WORK IN RUSSIAN: (1-3)
Independent research in Russian Studies on an advanced level for undergraduates and for graduate students outside the discipline. Students who will be expected to do outside work in Russian. May be repeated under different subtitles to a maximum of six credits. Prereq: Third year knowledge of Russian or consent of instructor.

RUS 499 RUSSIAN STUDIES CAPSTONE SEMINAR: (Subtitle required.)
This interdisciplinary seminar on a topic in Russian Studies serves as a capstone course for Russian Studies majors. As such majors are required to write a substantive research paper in which they demonstrate their command of the depth and breadth of Russian Studies across disciplines, as well as their ability to interpret and use sources in Russian. Prereq: Junior standing. Consent of instructor.

RUS 501 STRUCTURE OF RUSSIAN: (3)
An in-depth study of the history and structure of Russian in a variety of textual contexts. Historical changes that have led to significant contemporary features of the language will be taught. Taught in Russian. Prereq: RUS 404 or consent of instructor.

RUS 502 STRUCTURE OF RUSSIAN: (3)
An overview of the systems of Russian, its historical development, and its cultural context. Taught in English. Prereq: RUS 302 or equivalent.

RUS 570 RUSSIAN CULTURE 900-1900: (3)
An introduction to and survey of Russian culture from its origins until the 20th century that acquaints students with the development of Russian and Soviet culture, art, architecture, music, folklore, and everyday life. Taught in English.

RUS 690 SPECIAL TOPICS IN RUSSIAN: (1-6)
The study of Tolstoy, his art and life. All readings, lectures, and discussions are in English. May be repeated under different subtitles to a maximum of six credits. Prereq: Consent of instructor. (Subtitle required)

SUSTAINABLE AGRICULTURE: (1-6)
Independent research related to some aspect of sustainable agriculture under the direction of a research mentor. The research may be conducted in the College of Agriculture on campus, or at an approved off-campus entity. Projects can include, but are not limited to, laboratory experiments, field-based research, and studies involving sociology, economics, anthropology, or related disciplines. There is a clear expectation that quantitative data collection and analysis will be an integral part of the research project. Prereq: Consent of instructor and approval of Learning Contract.

SAG 101 INTRODUCTION TO SUSTAINABLE AGRICULTURE: (3)
A lecture/recitation course that stresses quantitative and logical reasoning that formerly was not a requirement. This course will emphasize how to take verbally presented problems, recognize the mathematical patterns within them, and solve them. Lecture, one hour, recitation, four hours. May be repeated for a total of six credits. Prereq: MA 108R, or Math Placement Test.

SOC 101 INTRODUCTION TO SOCIOLOGY: (3)
Introduction to the concepts and methods of sociology. Topics shall include socialization, group processes, social inequalities, social institutions and social change. This course or its equivalent (RSO 102) serves as a prerequisite to all other Sociology courses. Students may not receive credit for both this course and RSO 102.

SOC 102 SOCIOLOGICAL METHODS: (3)
Analysis of the social origins, development, and persistence of inequality in various societies. Prereq: SOC 101 or RSO 102. (Same as AAS 235.)

SOC 299 INTRODUCTORY TOPICS IN SOCIOLOGY: (Subtitle required)
An introductory study of a selected topic in sociology. Prereq: SOC 101 or RSO 102.

SOC 302 SOCIOLOGICAL RESEARCH METHODS: (3)
A course in research design, covering such topics as the relationship between theory and research, the ethics of social science research, units of analysis, identification of variables and measurement, and statistical techniques and modes of social observation. Required for majors. Prereq: Sociol- ogy majors and minors only. Consent of instructor.

SOC 310 QUANTITATIVE SOCIOLOGICAL ANALYSIS: (3)
This course focuses on the use of quantitative analysis techniques and software in social and behavioral research, covering such topics as univariate and bivariate analysis, parameter estimation, and hypoth- esis testing. Required for majors. Prereq: SOC 302.

SOC 303 CLASSICAL SOCIOLOGICAL THEORY: (3)
A course in classical and modern sociological theory from the eighteenth and early twentieth centuries. Works of theorists, such as Marx, Weber, Durkheim, Simmel, and Mead will be considered. Emphasis is on the development of sociology as a discipline. Required for majors. Prereq: SOC 101 or RSO 102.

SOC 305 CONTEMPORARY SOCIOLOGICAL THEORY: (3)
A survey and analysis of the most important sociological contemporary sociological theory. Works of major theorists are included. Empha- sis is on the conceptual structure of the different theories and the way in which they are applied to contemporary social problems. Prereq: SOC 304.

SOC 334 SOCIETY OF FAMILIES: (3)
A sociological study of the family in society. The course includes issues, and research findings on families and the dynamics of family life, with an emphasis on the social context and diversity of families. Prereq: SOC 101 or RSO 101.

SOC 335 SOCIOCULTURAL POLICY: (3)
A sociological study of the process of social change, social policies, and the sociological problems of society. Prereq: SOC 101 or RSO 101.

SOC 339 INTRODUCTION TO CRIME, LAW AND DEViancy: (3)
A sociological study of the extent and nature of crime, deviancy, and more general deviant behavior. Topics may include the relation- ship between crime, deviance and law, measurement of crime and deviancy, sociological theories of crime and deviance, and crime/ deviancy typologies. Students may not receive credit for both this course and the other SOC 146 or SOC 437. Prereq: SOC 101 or RSO 102.
SOC 390 ENVIRONMENTAL SOCIOLOGY. (3)
A sociological study of the emergence of the environment as a social issue in contemporary societies. Topics may include ecological and cultural and economic factors associated with the perception of environment in the transformational mobilization of social movements and political issues around environmental issues. Prereq: SOC 101 or RSO 102.

SOC 390 GLOBALIZATION: A CROSS-CULTURAL PERSPECTIVE. (3)
A critical examination of how processes affecting people develop in various countries and world regions. Topics shall include: development in traditional vs. modern societies; development processes and outcomes; and development policy options. Prereq: SOC 101 or RSO 102.

SOC 395 INDEPENDENT WORK. (1-12)
An independent study under the supervision of faculty. Students must identify both a project topic and a sociology faculty mentor who will supervise the project. Students taking this course must be Sociology majors or minors and must have a 3.0 GPA in the department. A learning contract must be filed in the department office, and the instructor must sign the contract. Projects must be repeated to a maximum of six credits. Prereq: SOC 101 or RSO 102, SOC major or minor, GPA of 3.0 or above in the department, consent of faculty member and instructor. Pass/No Pass grading only.

SOC 399 PRACTICUM IN SOCIOLOGY. (1-12)
A service learning or internship experience in sociology under the supervision of a faculty member. May be repeated under different subtitles to a maximum of six credits. Prereq: SOC 101 or RSO 102, SOC major or minor, consent of instructor. May be repeated to a maximum of six credits under different subtitles. Prereq: SOC 101 or RSO 102, SOC 342, and either SOC 302 or SOC 344.

SOC 444 TOPICS IN POLITICAL SOCIOLOGY (Subtitle required). (3)
A sociological study of topics related to politics and government. Topics may include national and supra national government; citizenship; political parties; interest groups; social movements; and globalization and the nature of movements. Topics may be repeated under different subtitles. Prereq: SOC 101 or RSO 102, SOC 343, and either SOC 302 or SOC 344.

SOC 517 RURAL SOCIOLOGY. (3)
A sociological study of the issues relevant to rural communities. Topics may include transformations in rural communities; the agricultural food system; and the natural environment in the United States and the world. Prereq: Sociology senior major or minor; graduate student status; or consent of instructor.

SOC 534 ADVANCED TOPICS IN SOCIAL INEQUALITIES (Subtitle required). (3)
A sociological study of topics related to social inequalities and stratification. May be repeated under different subtitles. Prereq: Sociology senior major; Sociology or African American Studies senior student; graduate student status; or consent of instructor. (Same as ANT 534.)

SOC 535 ADVANCED TOPICS IN SOCIAL INEQUALITIES (Subtitle required). (3)
A sociological study of topics related to social inequalities and stratification. May be repeated under different subtitles. Prereq: Sociology senior major or minor; graduate student status; or consent of instructor.

SOC 539 ADVANCED TOPICS IN CRIME, LAW AND DEVIANC (Subtitle required). (3)
A sociological study of selected topics related to the scientific study of crime, law, and deviance. Topics may include deviant subcultures; substance use; social control of crime; sociology of law; and philosophies of punishment. May be repeated to a maximum of six credits under different subtitles. Prereq: Sociology senior major or minor; graduate student status; or consent of instructor.

SOC 550 ADVANCED TOPICS IN SOCIOLOGY (Subtitle required). (3)
A sociological study of topics, theories, or research findings from selected sociological subfield. May be repeated to a maximum of six credits under different subtitles. Prereq: Sociology senior major or minor; graduate student status; or consent of instructor.

SOC 556 INDEPENDENT WORK. (1-3)
Independent sociological study of a topic under the supervision of faculty. Students must identify both a project topic and a sociology faculty mentor who will supervise the project. Students taking this course must be Sociology majors or minors and must have a 3.0 GPA in the department. A learning contract must be filed in the department in order to receive a grade for this course. Projects must be repeated to a maximum of six credits. Prereq: Sociology senior major or minor; graduate student status; or consent of instructor.

SOC 603 SEMINAR IN SOCIOLOGICAL TEACHING. (3)
The purpose of this course is to aid the development of student’s teaching styles and strategies. Topics for class readings and discussions include philosophers and theories of teaching as well as specific teaching strategies and techniques. Seminar members each design a course they someday hope to teach, constructing a course syllabus, choosing readings and designating maximum, minimum, and alternative readings. In addition, seminar members prepare and deliver presentations to the seminar as well as ongoing undergraduate classes. Prereq: Graduate standing in sociology, or consent of instructor.

SOC 610 PROSEMINAR IN COMPLEX ORGANIZATION. (3)
A systematic examination of the sociological concepts, literature, and current developments in the field of complex organizations. Prereq: Consent of instructor.

SOC 622 TOPICS AND METHODS OF EVALUATION. (3)
An examination of the use of evaluation methods, topics, and problems. An introductory course in the area with minimal emphasis on quantitative methods. The course is designed to: provide a perspective from which one can view and use, and to provide experiences for those who will learn from or conduct evaluations. Prereq: Consent of instructor, and a basic course in statistics or research. (Same as ANT 622.)

SOC 630 PROSEMINAR IN DEVIANT BEHAVIOR. (3)
A systematic examination of the sociological concepts, literature, and current developments in the field of deviant behavior. Prereq: Graduate standing. Prereq: SOC 436 or equivalent.

SOC 635 SEMINAR IN SOCIAL INEQUALITIES. (3)
A sociological study of topics related to social inequalities and stratification. It includes both classic and contemporary topics on issues such as political economy, the state, domination, democracy, work, poverty, welfare, resistance, class, race, ethnicities, and gender. The course serves as a foundational course for graduate students with interests in social inequalities, and is required for Sociology graduate students who have a specialization in this area. Prereq: SOC 650 or SOC 651 or consent of instructor. (Same as AAS 635.)

SOC 636 STRATIFICATION AND MOBILITY. (3)
A sociological study of topics related to stratification and mobility. The course is centered primarily around the core readings, both classical and contemporary, of stratification and mobility theories. May include both classical and contemporary theories on education, occupational status and prestige, inter- and intra-generational occupational mobility, classes, the consequences of stratification, and the role of social movements in education, and labor market, gender, ethnicities, and intragenerational mobility. A familiarity with statistics or survey research is strongly recommended. Prereq: Sociology 650 or consent of instructor.

SOC 640 SCIENCE, AGRICULTURE, AND DEVELOPMENT. (3)
An in-depth examination of the interrelations between science, agriculture, and development. Both domestic and international extra-institutional perspectives are explored. Prereq: Graduate standing in the social or agricultural sciences. (Same as AN 640.)

SOC 641 GENDER ISSUES IN DEVELOPMENT. (3)
An examination of gender issues in domestic and international development. Prereq: Graduate standing in the social or agricultural sciences. Students must obtain permission to register. (Same as AN 641.)

SOC 642 THE SOCIOLOGY OF WORK, OCCUPATIONS AND LABOR MARKETS. (3)
A sociological study of the organization of work in the industrial structure of the labor force, the nature of mental and manual labor; the structure of labor markets including underemployment, and segmentation, and the relationship of this structure to social class status attainment, worker resistance and informal groups; worker organization and unionization; the labor movement; state labor policies; and federal and state legislation regarding work, conflict, safety, and discrimination. Prereq: Graduate standing in sociology or other graduate department.

SOC 645 TOPICS IN POLITICAL SOCIOLOGY. (3)
This course examines how states, capital, and other relevant social forces produce new and collective forms of governance and political empowerment in various contexts and forms of governance and political empowerment in various contexts and forms of governance and political empowerment in various contexts and forms of governance and political empowerment in various contexts. Its topics may include many different areas including: employee representation; health and safety issues; and the role of local community organizations and their development of new forms of citizenship. Prereq: Consent of instructor. (Same as POL 645.)

SOC 650 CONCEPTS AND THEORIES IN SOCIOLOGY. (3)
The course will cover the fundamental concepts and theories in sociology, with an emphasis on placing them in context in which they were developed, and their applicability to contemporary society. Prereq: Sociology 650 or consent of instructor. (Same as SOC 651.)

SOC 651 SOCIOLOGICAL THEORY IN TRANSITION. (3)
Explores the development of modern social theory and its impact on sociological research. Prereq: Sociology 650 or consent of instructor.

SOC 652 SOCIOLOGICAL METHODS OF RESEARCH. (3)
A survey and critical evaluation of family macro and micro theories. The course will include (a) a historical perspective on the development of family theories; (b) the development of macro theories; (c) conceptual frameworks in use in the field; and (d) current trends in the development of micro, or middle-range, family theories. Prereq: Sociology 650 or consent of instructor. (Same as SOC 652.)

SOC 661 SOCIOLOGY OF EDUCATION. (3)
A study of schooling and education using basic analytic paradigms of the field. Emphasis on the development of conceptual frameworks in use in the field and current trends in the theory of education. Prereq: SOC 101 or equivalent. (Same as EPE 661.)

SOC 684 ADVANCED TOPICS IN SOCIOLOGY. (3)
An overview of the various methods and techniques, both quantitative and qualitative, used by sociologists, including experience in the design and execution of research. Prereq: Sociology 650 or consent of instructor. (Same as SOC 685.)

SOC 699 DIPLOMA IN METHODS OF RESEARCH. (3)
A seminar on the research process. Emphasis on the development of conceptual frameworks in use in the field. (Same as SOC 699.)

Key:
# = new course
* = course changed
+ = course dropped
Course Descriptions

SOC 681 RESEARCH DESIGN AND ANALYSIS.
Prep: Permission of instructor to design appropriate to problem and data, and selection of appropriate analysis techniques; critical examination of representative research studies. Prereq: Elementary statistical course.

SOC 682 SPECIAL TOPICS IN ADVANCED
SOCIOLOGICAL METHODS.
A treatment of one or more issues, topics, or problems in sociological methods such as time-series analysis, causal analysis, participant observation, conduct of experiments, sociomteristical techniques, sampling, and data analysis. Prereq: Consent of instructor to a maximum of nine credits. Prereq: SOC 681 or equivalent.

SOC 684 FARMING SYSTEMS RESEARCH
METHODS.
A focused treatment of one or more issues, topics, or problems in the field of farming systems research. Design and carry out an FSR project. Prereq: Graduate standing in the social or agricultural sciences. (Same as AES 691.)

SOC 691 STRUCTURE OF U.S. AGRICULTURE.
A survey of major theoretical perspectives in modern sociology, related to economic and social relations of production and state policy. Such emphases provide the student with a background of historical roots and future prospects for the socioeconomic problems confronting contemporary U.S. agriculture. Prereq: Graduate standing in sociology/ agricultural economics or consent of instructor. (Same as AES 691.)

SOC 730 SPECIAL TOPICS IN DEVIAN'T BEHAVIOR.
A focused treatment of one or more issues, topics, or problems in the field of deviant behavior such as delinquency, sociology of low, criminal justice and corrections, radical criminalology, or methodology issues in deviance research. May be repeated to a maximum of nine credits. Prereq: SOC 630 or equivalent or consent of instructor.

SOC 735 TOPICAL SEMINAR IN SOCIAL INEQUIALITIES.
A seminar devoted to the current issues in the study of social inequalities and stratification. May be repeated under different subtitles to a maximum of 12 credits. Prereq: SOC 655 or consent of instructor.

SOC 737 CULTURE, ENVIRONMENT AND
DEVELOPMENT.
The study of the interrelations between social processes, development and the environment. It provides the graduate student with the necessary theoretical and analytical tools to examine the social and cultural processes of environmental degradation and change. Topics include political ecology, health impacts of development, and changes in traditional environmental grassroots movements and large-scale development organizations. Prereq: Consent of instructor. (Same as AN 736.)

SOC 748 MASTERS THESIS RESEARCH.
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed before the 3rd semester. Prereq: SOC 749 DISSERTATION RESEARCH.

Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.

SOC 751 SEMINAR IN SOCIOLOGICAL THEORY.
A seminar devoted to the major sociological theories focusing on twentieth century developments in European and American sociological theory. The principal contributions of selected theoretical approaches, and the role of sociological theory in the establishment of contemporary sociology is assessed. Prereq: SOC 650 or consent of instructor.

SOC 766 CONCEPTS IN MEDICAL SOCIOLOGY.
A review of sociological concepts and methods which have been used in examining the health-related problems of society. Prereq: Consent of instructor to be announced in the Schedule of Classes. Not open to students who have credit for SPA 202. Prereq: SOC 6 or consent of department and placement test.

SOC 776 TOPICAL SEMINAR IN SOCIAL PROBLEMS.
Each semester some topic in the field of social psychology such as attitudes and beliefs, structure and function of social groups, social determination of human behavior will be studied intensively. May be repeated to a maximum of six credits. (Same as PSY 779.)

SOC 780 SPECIAL PROBLEMS IN SOCIOLOGY.
May be repeated to a maximum of 10 credits.

SOC 785 COMPARATIVE HEALTH CARE SYSTEMS.
This seminar explores the interrelationships between social problems and health care systems in comparative perspective. It will deal with the following questions: (1) What are the core analytical dimensions of a health care system? How do health care systems as a whole interact with each other? What is the relationship of the health sector to other institutional domains of a society, with its value-system, and with its major cultural and historical trends? and (3) What is the relationship between health and health care? Emphasis is given to modern medicine related to each other. Prereq: Consent of instructor. (Same as BSC 785.)

SOC 791 RESEARCH IN CONTEMPORARY
RURAL SOCIOLOGY.
Individual graduate research with correlated study of rural social research types and methods. May be repeated for a maximum of six credits.

SOC 792 RESEARCH IN SOCIOLOGY.
Individual research and reading in particular fields of sociology. Prereq: Open to advanced students who are interested in intensive study beyond that offered in regular classes in each field. May be repeated to a maximum of 10 hours. 

SOC 797 COMMUNITY RESEARCH
PRACTICUM.
Supervised experiences in the application of sociological concepts and techniques to problems of program development in a community organizational setting. Prereq: Consent of instructor. May be repeated to a maximum of 9 credits. Prereq: Approval of the Director of the Community Development Program.

SPA Hispanic Studies

SPA 011 SPANISH READING FOR GRADUATE STUDENTS.
Designed for those graduate students who wish to acquire a rapid reading knowledge of Spanish. Emphasis on rapid vocabulary building, the Spanish idiom, and the verb systems. Lecture, three hours.

SPA 101 ELEMENTARY SPANISH (spoken approach).
Experience with the Spanish language. Basic modes of communication in Spanish. The emphasis is on everyday language which the student will learn by applying the essential grammatical structures to vocabulary. Both written and oral communication assignments are given. This textbook provides instructional assignments and self-corrective exercises. Not open to students who have credit for SPA 141.

SPA 102 ELEMENTARY SPANISH (spoken approach).
A continuation of SPA 101. Not open to students who have credit for SPA 142. Prereq: SPA 101 or consent of department and placement test.

SPA 103 BEGINNER SPANISH.
This course is designed to expand upon the students’ already existing knowledge of the Spanish language. It is an intermediate level course. The textbook and supplementary material will cover subjects of grammar and the four skill areas. All readings are in Spanish. This course aims to develop students’ abilities in the four basic skills of language learning (speaking, listening, reading, and writing). Prereq: Placement exam.

SPA 141 ELEMENTARY SPANISH (spoken approach).
The study of the basic principles of the language through grammar, with emphasis on rapid development of reading and comprehension skills. Offered by correspondence only. Not open to students who have credit for SPA 142, 143.

SPA 142 ELEMENTARY SPANISH (spoken approach).
A continuation of SPA 141. Selected readings. Offered by correspondence only. Not open to students who have credit for SPA 142, 143.

SPA 151 SPANISH FOR HEALTH PROFESSIONALS.
A course focusing on vocabulary related to medical patients, including vocabulary for diagnosis and treatment. Prereq: Prior college or high school Spanish or other experience with the Spanish language roughly equivalent to one semester of college study.

SPA 201 INTERMEDIATE SPANISH (spoken approach).
Review and reinforcement of grammatical and phonological patterns. Emphasis will be given to developing reading, listening, and speaking skills. This course is designed for students who have credit for SPA 241. Prereq: SPA 102 or consent of department and placement test.

SPA 202 INTERMEDIATE SPANISH (spoken approach).
Continuation of SPA 201. Not open to students who have credit for SPA 242. Prereq: SPA 201 or consent of department and placement test.

SPA 203 HIGH INTERMEDIATE SPANISH.
This course covers the development of Spanish vocabulary, reading, grammar, and listening abilities through the study of the language. May be repeated under different titles to a maximum of six. (Same as LAS 361.)

SPA 314 SPANISH AMERICA.
A course designed to acquaint students with Spanish America’s intellectual, cultural and historical development. Conducted primarily in Spanish. Prereq: SPA 210 and 211, or consent of instructor.

SPH 315 INTRODUCTIONS TO HISPICAN LITERATURE.
This course provides students with a basic background for reading Hispanic literature. It will give the students an idea of the various personalities and works related to the development of a method of reading critically. Students will identify and discuss themes, plots and structure of the poetry, the nuevo concepto of the metaphor, and alliteration. Lecture and discussion in Spanish. Prereq: SPA 210 and 211, or consent of instructor.

SPA 320 LITERATURE AND LIFE AND THOUGHT OF SPANISH AMERICA.
A course designed to acquaint students with Spanish America’s intellectual, cultural and historical development. Conducted primarily in Spanish. Prereq: SPA 210 and 211, or consent of instructor.

SPA 322 LITERATURE, LIFE AND THOUGHT OF SPANISH AMERICA.
A course designed to acquaint students with Spanish America’s intellectual, cultural and historical development. Conducted primarily in Spanish. Prereq: SPA 210 and 211, or consent of instructor.

SPA 324 THE THEATRE IN SPAIN AND SPANISH AMERICA.
An examination of the theatre in Spain and Spanish America, stressing developments in the dramatic arts as seen in the works of the Master Dramatists of the Golden Age to the present of the twentieth century in Spanish America. Conducted primarily in Spanish. Prereq: SPA 210 and 211.

SPA 351 LATIN AMERICAN LITERATURE.
A survey of the literature that reflects the life and thought of Spain during the Middle Ages to the present, with emphasis in Spanish. Prereq: SPA 210 and 211, or consent of instructor.

SPA 361 SPANISH LITERATURE.
A course designed to acquaint students with Spain’s intellectual, cultural and historical development. Conducted primarily in Spanish. Prereq: SPA 210 and 211, or consent of instructor.

SPA 363 SPANISH LITERATURE.
A course designed to acquaint students with Spain’s intellectual, cultural and historical development. Conducted primarily in Spanish. Prereq: SPA 210 and 211, or consent of instructor.

SPA 365 SPANISH LITERATURE.
A course designed to acquaint students with Spain’s intellectual, cultural and historical development. Conducted primarily in Spanish. Prereq: SPA 210 and 211, or consent of instructor.
SPA 372 SPANISH CINEMA: (Subtitle required). (3)
An introduction to the study and interpretation of cinema, with a focus on general and Spanish cinema in particular. Open to majors and non-majors. The course will focus on films from the Spanish schools of cinema that have been created over the past six decades. Includes basic phonetic component. Not open to native speakers of Spanish. May be taken concurrently with Spanish language classes and may be repeated to a maximum of 6 credits. Preq: SPA 101-102, 210-211, or 310.

SPA 390 FIELD BASED/COMMUNITY BASED EDUCATION. (1-15)
A community- or field-based experience in Spanish under the supervision of a departmental member. The course may be repeated to a maximum of 6 credits with different supervisors. Preq: One 300-level Spanish literature course.

SPA 413 ADVANCED SPANISH CONVERSATION AND PHONETICS. (3)
Intensive practice in oral Spanish, emphasizing refinement of intonation, pronunciation, and stylistic expression. Designed to increase and maintain fluency. Includes basic phonetic component. Not open to native speakers of Spanish. May be taken concurrently with Spanish language classes and may be repeated to a maximum of 6 credits. Pass-fail only. Preq: Permission of the instructor. This course must be taken on a letter grade basis unless identified by different subtitles. Preq: One 300-level Spanish literature course.

SPA 420-18TH AND 19TH CENTURY SPANISH LITERATURE (Subtitle required).
A study of the works of the Generation of 1898 and representative works of recent writers. Conducted in Spanish. Preq: One 300-level Spanish literature course.

SPA 436 LITERATURE OF SOCIAL PROTEST IN SPANISH AMERICA.
Analysis and in-depth study of the social and political elements in selected works by Spanish-American novelists, poets, and dramatists. Conducted in Spanish. Preq: One 300-level Spanish literature course.

SPA 444-20TH AND 21ST CENTURY SPANISH LITERATURE (Subtitle required).
Reading and analysis of Spanish literature and culture from the 20th and 21st centuries. The course may cover multiple genres, authors, periods, regions, or topics. Course may be repeated under different titles to a maximum of six credits. Preq: SPA 310. Permission of instructor for students who did not receive B or better in SPA 310.

SPA 454 COLONIALISM AND 18TH CENTURY SPANISH-AMERICAN STUDIES (Subtitle required).
A topics course in Latin American literature and culture from the colonial period through the 19th century. Special emphasis on the interaction between literature, historical and social developments. Taught in Spanish. May be repeated to a maximum of 6 credits with topic change. Preq: SPA 310. SPA 311. Permission of instructor for students who did not receive B or better in SPA 310.

SPA 460 CONTEMPORARY SPANISH-AMERICAN STUDIES (Subtitle required).
A topics course in the study of Latin American literature and culture. Special emphasis on the interaction between literature, historical and social developments and popular culture. Taught in Spanish. May be repeated to a maximum of 6 credits with topic change. Preq: SPA 310. SPA 311. Permission of instructor for students who did not receive B or better in SPA 310.

SPA 474 TOPICS IN SPANISH STORIES (Subtitle required).
Reading and analysis of Hispanic literature and culture organized by topics, May be taken concurrently with Spanish language classes and may be repeated to a maximum of 6 credits. Preq: SPA 310. SPA 311. Permission of instructor for students who did not receive B or better in SPA 310.

SPA 480 HISPANIC KENTUCKY.
The study of U.S. Latino history, with primary emphasis on the evolution of Hispanic and Spanish in the US. These issues will be studied with the primary intent of determining what they mean to Central Kentucky. This course is conducted in Spanish and incorporates a service learning component which is finalized the first week of the semester. Preq: SPA 310 or consent of instructor.

SPA 501 SPANISH PHONETICS, PRONUNCIATION AND INTONATION. (3)
Introduction to Spanish descriptive linguistics with intensive study of variant speech sounds and established norms in the major cultural areas of Spanish-speaking countries. Course will focus on the phonetic and phonological peculiarities of the four major dialects of Spanish. Preq: SPA 210 and SPA 211, and a 300-500 level Spanish course.

SPA 509 INTRODUCTION TO COMPARATIVE SPANISH, PORTUGUESE, AND ITALIAN LINGUISTICS. (3)
An introduction to the historical development of Spanish, Portuguese and Italian from a comparative point of view with an emphasis on the related lexical, phonological and morphological items. Preq: Reading knowledge of Spanish or Italian (fourth semester of coursework). Preq: One 300-level Spanish literature course.

SPA 519 THEMES IN MEDIEVAL AND EARLY MODERN SPANISH LITERATURE AND CULTURE (Subtitle required).
This course is a topics course in Medieval and Early Modern Spanish Literature and Culture. Taught in Spanish. Appropriate for advanced undergraduates and MA level graduate students. May be repeated to a maximum of six credits under different subtitles. Preq: For undergraduates: SPA 400 or permission of instructor. Preq: For graduates: SPA 509 or permission of instructor.

SPA 529 THEMES IN MODERN AND CONTEMPORARY SPANISH LITERATURE, CULTURE AND FILM (Subtitle required).
The course focuses on a topic in Modern and Contemporary Latin American Literature, Film and Culture. Appropriate for advanced undergraduates and MA level graduate students. May be repeated to a maximum of six credits under different subtitles. Preq: For undergraduates: SPA 400 or permission of instructor. Preq: For graduates: SPA 509 or permission of instructor.

SPA 537 INDEPENDENT WORK IN SPANISH. (3)
May be repeated once. Preq: Major and standing of 3.0 in the department.

SPA 590 FIELD BASED/COMMUNITY BASED EDUCATION. (1-15)
A community- or field-based experience in Spanish under the supervision of a departmental member. The course may be repeated to a maximum of 6 credits with different supervisors. Preq: One 300-level Spanish literature course.
### STA 601 THEORY OF STATISTICAL INFERENCES

Elements of decision theory, properties of estimators; point and interval estimation; hypothesis testing; estimation; hypothesis testing; regression and correlation; analysis of categorical data; linear regression as conditional expectation; probability distributions; decision theory. Must be taken concurrently with STA 532. Prereq: MA 416 or STA 471G.

### STA 602 SEQUENTIAL ANALYSIS

Simple decision hypotheses, sequential procedures, sampling plans; sequential probability ratio tests; order statistics, folded normal distribution; Bayesian sequential plans. Prereq: STA 524 or equivalent. (Same as ECO 626.)

### STA 610 ADVANCED HUMAN JUDGMENT

Sampling from finite populations; estimation of sample size; stratification; ratio and regression estimators; systematic sampling; cluster sampling; multistage sampling (selection of sampling units with probability proportional to size); double sampling; response errors. Prereq: STA 531 or consent of instructor.

### STA 621 NONPARAMETRIC INFERENCE

Estimation and testing when the functional form of the population distribution is unknown; rank and sign tests; tests based on permutations of observations; power and efficiency; optimum nonparametric tests and estimators. Prereq: STA 601.

### STA 624 APPLIED STOCHASTIC PROCESSES

Definition and classification of stochastic processes, Markov chains, continuous time Markov chains, queueing theory, epidemic processes, Gaussian processes. Prereq: STA 621 or consent of instructor. (Same as OR 624.)

### STA 626 TIME SERIES ANALYSIS

Time series and stochastic processes, auto-correlation functions and spectral densities of stationary time series, linear models for stationary processes, moving average, auto-regressive and mixed autoregressive-moving average processes; linear nonstationary models, minimum mean square error forecasts and their properties; model identification, estimation and diagnostic checking. Prereq: STA 422G or equivalent. (Same as ECO 626.)

### STA 630 BAYESIAN INFERENCE

Likelihood principles, sufficiency, natural conjugate and hierarchical priors, empirical Bayesian analysis for estimation and testing. Prereq: STA 601.

STA 643 ADVANCED EXPERIMENTAL DESIGN. (3) Advanced topics in analysis of incomplete block designs; confounding and complete block designs worked at several places and times; principles of design construction. Prereq: STA 603.

STA 644 ADVANCED LINEAR AND NONLINEAR MODELS. (3) Review of the general linear model. Regression methodology using R. designs. Combining analyses of similar experiments. Prereq: STA 570, STA 671, and STA 672. (Same as PLS 676.) STA 653 CLINICAL TRIALS. (3) Design and analysis of Phase I-III clinical trials, interim monitoring of trials, sample size, power, crossover trials, bioequivalence, mixed models, and clinical trials. Prereq: STA 644. STA 661 MULTIVARIATE ANALYSIS. (3) Characterization and properties of the multivariate normal distribution, random samples, and the multivariate analysis of variance, related distribution theory; factor analysis. Prereq: STA 603.

STA 662 RESEARCHING AND RELATED METHODS. (3) Theory and application of the bootstrap, jackknife and other resampling methods. Prereq: STA 601, 603. STA 669 ANALYSIS OF CATEGORICAL DATA. (3) Multinomial and binomial models; large-sample theory of estimation and testing, Pearson chi-squared and modified chi-square statistics, Wald Statistics, Q-tests, maximum likelihood estimation, consistency and efficiency criteria, large sample theory, and hypothesis test. STA 671 REgression and Correlation. (2) Simple linear regression, elementary matrix algebra and its application to simple regression, matrix model, multiple regression, analysis of variance tables, testing of subhypotheses, nonlinear regression, stepwise regression, partial and multiple correlation. Estimation of computer library routines. STA 673 DISTRIBUTION-FREE STATISTICAL INFERENCE AND ANALYSIS OF CATEGORICAL DATA. (3) Inference for population quantiles, signs tests, Wilcoxon tests, Kruskal- Wallis and Friedman tests; matched pairs; goodness-of-fit tests for complete and partially specified distributions, rxc contingency tables, permutation test for rxc contingency tables, exact probability tests for small samples. STA 675 SURVEY SAMPLING. (3) Simple random sampling, stratified random sampling, ratio and regression estimators, cluster sampling, systematic sampling, and multi-stage sampling. Specific problems associated with running a survey: non-response, call-backs, questionnaire construction, mail questionnaires, and area sampling. Lecture three hours per week; laboratory, two hours per week for seven and a half weeks. Offered the first or second half of each semester. Prereq: STA 570 or STA 580.

STA 671 REgression and Correlation. (2) Simple linear regression, elementary matrix algebra and its application to simple regression, matrix model, multiple regression, analysis of variance tables, testing of subhypotheses, nonlinear regression, stepwise regression, partial and multiple correlation. Estimation of computer library routines. STA 673 DISTRIBUTION-FREE STATISTICAL INFERENCE AND ANALYSIS OF CATEGORICAL DATA. (3) Inference for population quantiles, signs tests, Wilcoxon tests, Kruskal- Wallis and Friedman tests; matched pairs; goodness-of-fit tests for complete and partially specified distributions, rxc contingency tables, permutation test for rxc contingency tables, exact probability tests for small samples. STA 675 SURVEY SAMPLING. (3) Simple random sampling, stratified random sampling, ratio and regression estimators, cluster sampling, systematic sampling, and multi-stage sampling. Specific problems associated with running a survey: non-response, call-backs, questionnaire construction, mail questionnaires, and area sampling. Lecture three hours per week; laboratory, two hours per week for seven and a half weeks. Offered the first or second half of each semester. Prereq: STA 570 or STA 580.

STA 676 SURVEY SAMPLING. (3) Simple random sampling, stratified random sampling, ratio and regression estimators, cluster sampling, systematic sampling, and multi-stage sampling. Specific problems associated with running a survey: non-response, call-backs, questionnaire construction, mail questionnaires, and area sampling. Lecture three hours per week; laboratory, two hours per week for seven and a half weeks. Offered the first or second half of each semester. Prereq: STA 570 or STA 580.

STA 679 QUANTITATIVE INHERITANCE IN PLANT AND ANIMAL BREEDING. (1-3) After a brief review of population genetics theory, the course is divided into two sections which cover methods of estimating genetic variance and covariance. The order of instruction is designed to improve the student's understanding of the material. The first course will focus on handling and interpretation of actual data sets through the use of computer programs and the second course will use genetic and statistical models to the covariate matrix; utilization of existing computer programs. Prereq: STA 671 and 672.


STA 691 BISTATISTICS. (3) A study of statistical ideas, methods and procedures used in public health. This course will include a curve-fitting, multiple regression logistic regression, stratification and confounding, the Mantel-Haenzel pro- cedure, and analysis of survival data. There are several hours of lecture and lab each week. Prereq: STA 580 or equival- ent. (Same as SPH 630.)

STA 692 STATISTICAL CONSULTING. (3) A practical course designed to introduce students to consulting experience, including how to manage a consulting session, how to formulate and solve problems and how to express results both orally and in writing. Students will be expected to analyze data from a current consulting project. Lecture, two hours; laboratory, two hours per week. Coreq: STA 643 or 644 or consent of instructor.

STA 694 SPECIAL TOPICS IN STATISTICAL THEORY (Subtitle required). (1-3) To be selected by staff. May be repeated to a maximum of three credits.
SW 445 EDUCATIONAL PRACTICUM II. (6)
This course is designed to stress the importance of theoretical orientation, critical thinking, ethical problem-solving and the use of informational resources in making decisions about practice as a graduate social worker. Prereq: Admission into the MSW program.

SW 601 SOCIAL WORK PRACTICE II (3)
This is the second year generator social work practice sequence. This course requires utilization of analytical thinking to master the social work skills that underlie the social work practice problem-solving and prevention. Prereq: Admission into the MSW program and SW 600.

SW 603 SOCIAL WORK PRACTICE WITH CHILDREN AND ADOLESCENTS (2-3)
Study and application of developmental crises and problems of children and youth. Emphasis upon social work strategies of intervention for prevention, assistance or resolution. Prereq: SW 600 or 601 or consent of instructor.

SW 605 SEMINAR IN CRIMINAL JUSTICE PRACTICE (2-5)
Criminal justice is a microcosm of the larger social system, aims, theories of criminality and societal reaction, the consequences and costs to offenders and to society of current policies. Emphasis upon traditional and innovative community and institutional programs for adult and juvenile offenders will be examined.

SW 610 INTRO TO SOCIAL WORK PRACTICE (2)
For students receiving advanced standing, this "bridge" course is designed to stress the importance of theoretical orientation, critical thinking, ethical problem-solving and the use of informational resources in making decisions about practice as a graduate social worker. Prereq: Admission into the MSW program with advanced standing.

SW 611 SOCIAL WORK PRACTICE IN INTEGRATIVE HEALTH. (2-3)
Description and examination of social work strategies involved in the mental health delivery system, with particular emphasis on social work interventions and roles.

SW 612 SEMINAR IN SOCIAL WORK PRACTICE WITH WOMEN (2-3)
This seminar focuses on the special problems and practice strategies relevant to understanding the roles of women in society.

SW 613 URBAN ECOLOGY AND AGING. (2-3)
Effects of an urban environment upon the aging population, including community development, city planning, housing, transportation, relocation, and mobility. The impact of technological advances will be examined from the point of view of theory, current research, and the practitioner's role as an advocate for the elderly.

SW 615 SOCIAL WORK PRACTICE IN MINORITY GROUPS. (2-3)
This course will examine traditional and emerging concepts of family and community practice with respect to minority group communities. Students who wish to take this course for three credits will be expected to engage in a community-based project under the supervision of a sponsoring employer. Enroll in the course constitutes full-time status. Course may be taken for one or two credit hours including weekly seminars. Prereq: SW 600, SW 620, SW 625, and SW 650.

SW 620 HUMAN BEHAVIOR AND SOCIAL ENVIRONMENT. (3)
Description and explanation of behavior, socialization and personality development in the context of childhood and adolescence. Prereq: SW 620 or 625.

SW 623 SOCIAL WORK PRACTICE WITH GROUPS. (2-3)
This course critically analyzes approaches to group practice in social work emphasizing socialization and resocialization purposes and leader activities. Research and practice issues are examined. Prereq: SW 600 or 601 or consent of instructor.

SW 624 PERSPECTIVES ON HUMAN SEXUALITY. (3)
An examination and study of historical and current perspectives of human sexuality. Students are expected to develop an awareness of the effects of culture, language, age, gender, sexual orientation, and other group characteristics upon the evolution of sexuality, and the role of diversity within society. Prereq: SW 620 or consent of the instructor.

SW 625 INTRRODUCTION TO SOCIAL WORK PRACTICE. (3)
This course introduces students to the history and philosophy of social work, the social work profession, and work with individuals, families, groups, organizations, and communities toward the goals of restoration and enhancement of societal functions. Many social work roles in the direct delivery of social services with specific interventions will be emphasized. Prereq: SW 620, SW 625, and SW 650.

SW 627 COLLABORATIVE PRACTICE: SUBSTANCE ABUSE, MENTAL HEALTH AND THE LAW. (3)
This course provides students with critical knowledge about substance abuse and mental health problems experienced by families. A variety of related social service agencies and mental health professionals will be discussed as screening, assessment, case management, and referral services. Collaborative practice with substance abuse, mental health service providers, social services, and other providers is addressed. Prereq: Completion of a successful degree.

SW 630 INTRODUCTION TO SOCIAL WORK PRACTICE POLICY AND SERVICES. (3)
This first course in the policy sequence emphasizes the analysis of social work policy, programs, and policies, and the social work professional's role in formulating and implementing social work policy. Students will be required to provide critical perspectives of substance abuse and mental health problems, the social work role in policy formulation, and the role of the social work professional in effecting change. Prereq: SW 625 and SW 650.

SW 635 INTRODUCTION TO PROFESSIONAL ETHICS. (2)
This course introduces students to the place of ethics in professional social work practice; the philosophical formulations that underlie social work ethics; and the development of ethical reasoning and decision-making. Prereq: Admission into the MSW program and SW 625.

SW 640 FOUNDATION PRACTICUM. (4)
This introductory field-based course under faculty direction requires students apply and analyze knowledge and social work knowledge from the foundation curriculum. Students study the special strengths and needs of populations at-risk for reaching their full potential and function. Focus is given to the development of social work practice skills for work with individuals, families, groups, organizations, and communities toward the goals of restoration and enhancement of societal functions. Many social work roles in the direct delivery of social services with specific interventions will be emphasized. Prereq: Open only to social work majors.

SW 650 SOCIAL WORK PRACTICE IN ETHICALLY CHALLENGED SOCIAL SITUATIONS. (3)
Focus on mastering the skills that underlie assessment in social work practice situations. Prereq: Admission into the MSW program.

SW 720 SUBSTANCE MISUSE. VIOLENCE AND RISK MANAGEMENT. (3)
Designated for students who wish to participate in the decision-making with populations at high risk for victimization or perpetuation of violence and substance misuse, this course provides contemporary scientific and ethical knowledge and understanding of violence, trauma, domestic abuse, child abuse, and mental disorders with substance misuse. Theories of addiction are explored with attention to genetic, familial, gender, programmatic and cultural issues. Neurochemical and neuropsychological correlates of addiction are explored. Assessment approaches and major interpersonal strategies are applied to practice situations. Prereq: Admission into the MSW program with advanced standing.
In this required internship students continue to apply and refine their skills and knowledge for assessment and intervention appropriate to the most challenging cases. Students have an opportunity to work with clients who are seeking treatment in areas such as substance abuse, domestic violence, mental health, and other related service areas, family services, and other environments. It is designed to increase the student's familiarity with diagnostic classifications, criteria, etiologies, and the epidemiology of disorders and social work interventions for these disorders. Prereq: Admission to the MSW program with advanced standing or SW 600 and SW 620.

This seminar is usually taken by MSW students in their last semester. Special emphasis will be placed on issues of leadership roles, ethics, the implementation of a research or program evaluation project designed to increase the social worker's familiarity with diagnostic classifications, criteria, etiologies, and the epidemiology of disorders and social work treatments for disorders. Prereq: Admission to the joint Ph.D. program.

This course offers a survey of the major mental disorders typically encountered by social workers in clinical practice, and in relation to other areas of social work practice such as protective services, court-related services, and criminal justice and other environmental systems. It is designed to increase the social worker’s familiarity with diagnostic classifications, criteria, etiologies, and the epidemiology of disorders and social work interventions for these disorders. Prereq: Admission to the MSW program with advanced standing or SW 600 and SW 620.

This is the first of two required research and intervention courses in the SW 750. Students are required to conduct research related to practice issues or program evaluation in their fields of concentration. They will collect or otherwise access study data, enter and analyze it in SPSS or other computer packages, and present the results in various formats. Prereq: SW 700.

This course examines major ethical problems facing contemporary social work. Students will examine approaches to ethical analysis as well as major ethical problems facing contemporary social work. The course will emphasize the development of advanced ethical reasoning and analytic approach is used to explore the relationship between these conditions and the social, cultural, political, economic, and environmental systems. Prerequisites: admission to the doctoral program and SW 781.

This course will offer a review of the major mental disorders typically encountered by social workers in clinical practice, and in relation to other areas of social work practice such as protective services, court-related services, and criminal justice and other environmental systems. It is designed to increase the social worker’s familiarity with diagnostic classifications, criteria, etiologies, and the epidemiology of disorders and social work interventions for these disorders. Prereq: Admission to the joint Ph.D. program.

This course is designed to facilitate the student's completion of the dissertation prospectus and theses, and to help orient students to the expectations of formal presentations on their research plans and will address available literature, measurement and methodological issues, analysis of data, interpretation of findings, and submission of the dissertation. Prereq: Six hours doctoral level research.

Topics of current importance in Social Work research and practice, including philosophical, theoretical, ethical, and technical considerations, related to the role of the social worker in different settings and under different subtitles. Prerequisites: Admission to the joint Ph.D. program.

This course focuses on developing advanced ethical reasoning and analytic approach is used to explore the relationship between these conditions and the social, cultural, political, economic, and environmental systems. Prerequisites: admission to the doctoral program and SW 781.

This course provides an overview of the major mental disorders typically encountered by social workers in clinical practice, and in relation to other areas of social work practice such as protective services, court-related services, and criminal justice and other environmental systems. It is designed to increase the social worker’s familiarity with diagnostic classifications, criteria, etiologies, and the epidemiology of disorders and social work interventions for these disorders. Prereq: Admission to the joint Ph.D. program.

This course examines major ethical problems facing contemporary social work. Students will examine approaches to ethical analysis as well as major ethical problems facing contemporary social work. The course will emphasize the development of advanced ethical reasoning and analytic approach is used to explore the relationship between these conditions and the social, cultural, political, economic, and environmental systems. Prerequisites: admission to the doctoral program and SW 781.

This course is designed to facilitate the student's completion of the dissertation prospectus and theses, and to help orient students to the expectations of formal presentations on their research plans and will address available literature, measurement and methodological issues, analysis of data, interpretation of findings, and submission of the dissertation. Prereq: Six hours doctoral level research.
TA 265 COSTUME CONSTRUCTION. (3)
A study of the principles and techniques of costume construction. Lecture, two hours, laboratory, two hours. Prereq: TA 150 or consent of instructor.

TA 267 LIGHTING AND SOUND TECHNOLOGY. (3)
An introduction to lighting and sound practice in today’s theatre. Lighting includes design and maintenance of lighting equipment, photometrics, basic theatrical wiring and modern theatre systems. Sound topics include use of sound equipment for enhancement and reinforcement of theatrical productions and basic sound editing. Lecture, three hours, laboratory, two hours per week.

TA 271 WORLD THEATRE II. (3)
A multidisciplinary examination of the history, theory, dramatic literature, and practices of theatre from 1800 to 1950. The second of four courses in a four semester sequence of World Theatre.

TA 272 PRINCIPLES OF STAGE DRAFTING. (3)
A multidisciplinary examination of the history, theory, dramatic literature, and practices of theatre from 1500 - 1800. The second of four courses in a four semester sequence of World Theatre.

TA 280 SCRIPT ANALYYSIS. (3)
Advanced practice and research in the techniques of script analysis. This course will examine the role and responsibilities of the student as a writer, director, and designer. Lecture-studio course. May be repeated to a maximum of 12 credits. Prereq: Consent of instructor.

TA 310 AUDITION TECHNIQUES. (3)
Writing, reading, and studying the techniques of auditions. Lecture, three hours; laboratory, two hours per week.

TA 315 JUNIOR STUDIO: ACTING INTENSIVE. (3)
The study, practice and application of intensive study and project oriented. Students will analyze scripts and focus on creating performance pieces. The course will include the student’s role as director and composer in experimental theatre. Lecture, six hours; laboratory, two hours per week. Prereq: TA 115 and TA 215, or permission of instructor. Majors only.

TA 316 JUNIOR STUDIO: DESIGN INTENSIVE. (3)
This lecture-studio is research and project oriented. Students will analyze scripts and focus on creating designs that are effective in telling the story. Lecture, two hours; laboratory, two hours per week.

TA 320 THEATRE MOVEMENT I. (3)
The study and practice of movement. Lecture, two hours; laboratory, two hours per week.

TA 321 THEATRE MOVEMENT II. (3)
The study and practice of stage move-ment. Lecture, two hours; laboratory, two hours per week.

TA 325 TOPICS IN MOVEMENT. (3)
A continuing investigation of the movement style of various performing techniques. Prereq: TA 345 and consent of instructor. May be repeated to a maximum of 12 hours. Lecture, one hour; laboratory, two hours per week.

TA 330-352 TOPICS IN THEATRE. (3)
Reading, research, lecture and/or discussion in various areas of theatre history, technology, and practice. May be repeated for credit.

TA 335 GRAPHICS FOR THEATRE. (3)
The technical components of graphic skills in relation to theatrical design and technology. Sketching, rendering, mechanical drafting, computer design and related computer programs will be emphasized. Lecture, two hours, laboratory, one hour per week. Prereq: TA 150. Major or consent of instructor.

TA 336 COSTUME DESIGN. (3)
The design of costumes for both performance and commercial production. Lecture, two hours; laboratory, one hour per week.

TA 337 LIGHTING DESIGN. (3)
Theory, practice and design of lighting for the theatre. Examination of the practical and aesthetic requirements of lighting through research and performance. Application of theory to light in a variety of contexts including theatre, opera, musicals and concerts. Lecture, three hours; laboratory, one hour per week. Prereq: TA 267, or consent of instructor.

TA 338 VISUAL STORYTELLING. (3)
Exploring communicating a story through non-text based means using the visual medium of puppet and mask theatre and its associated techniques. May be repeated to a maximum of six hours.

TA 339 WORLD THEATRE III, 1800-1950. (3)
A multidisciplinary examination of the history, theory, dramatic literature, and practices of theatre from 1800 to 1950. The third of four courses in a four semester sequence of World Theatre.

TA 342 DIRECTING FOR THE THEATRE. (3)
An advanced course in directing, emphasizing actor training as a basis for theatrical production. Textual interpretation is considered from the viewpoint of all members of the artistic team. The course requires practical application of analytical theories. Prereq: Graduate standing.

TA 402 APPLIED RESEARCH IN THEATRE (Subtitle required). (3)
This course focuses on the application of performance/production research to the actual production of a dramatic text. Students will investigate the work of a selected writer, examine critical and institutional/relative to the writer, and then apply this research to the production of one play. The play will be produced as a part of the department’s Studio Season. May be repeated to a maximum of six credits.

TA 425 ADVANCED STYLES OF ACTING. (3)
The rehearsal and performance of scenes and class exercises in the acting styles and techniques of selected playwrights and directors. Prereq: TA 327.

TA 430 JUNIOR THEATRE INSTITUTE. (2-3)
This lecture-studio course explores the role and responsibilities of the student as a writer, director, and designer. May be repeated to a maximum of twelve credits. Prereq: By audition or permission of the department.

TA 430 THEATRE DIRECTING. (3)
A continuing course in the study of directing and conducting production of selected plays. May be repeated to a maximum of six hours. Prereq: TA 335 and consent of instructor.

TA 470 ADVANCED PROJECT IN DESIGN. (3)
This course will focus on a particular period or playwright’s work and is intended for students in advanced design courses. Lecture, one hour; studio, four hours per week. Prereq: TA 345 and consent of instructor.

TA 471 WORLD THEATRE IV, 1950-Present. (3)
A multi-cultural examination of the history, theory, dramatic literature and practices of theatre from 1930 to the present. Lecture, six hours. Prereq: TA 339 and consent of instructor.

TA 485 FRENCH THEATRE: CULTURE, TEXT AND PERFORMANCE. (3)
An advanced course in French theatre, focusing on the evolution of the French theatre, the development of the French theatre and the role of French theatre in the world. Lecture, two hours; laboratory, one hour. Prereq: Consent of instructor.

TA 486 SOCIAL ACTION THEATRE. (3)
This course will explore applications of theatre practice and performance as a means of social activism. Lecture, three hours; laboratory, one hour. Prereq: Consent of instructor.

TA 500 SOCIAL ACTION DRAMATURGY. (3)
The study and practice of directing techniques required for theatrical production. May be repeated to a maximum of six credits. Prereq: Consent of instructor and filing of prospectus.

TA 510 DIRECTING IN DRAMA. (3)
The study and practice of directing techniques required for theatrical production. May be repeated to a maximum of six credits. Prereq: Consent of instructor and filing of prospectus.

TA 574 MASTER’S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six credits. Prereq: All course work toward the degree must be completed.

TA 575 DISSERTATION RESEARCH. (0)
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for 2 full-time semesters. Prereq: TA 569 following successful completion of qualifying examination.

TA 590 PRODUCTION PRACTICUM. (1-3)
The study and practice of production techniques through rehearsal and performance. May be repeated for up to a maximum of six credits. Prereq: Consent of instructor and filing of prospectus.

TA 591 PERFORMANCE PRACTICUM. (1-3)
The study and practice of acting and directing through rehearsal and performance. May be repeated for up to a maximum of six credits. Prereq: Consent of instructor and filing of prospectus.

TA 606 ADVANCED STUDIES IN DESIGN TECHNOLOGY. (Subtitle required). (3)
Advanced study in design, design techniques and design related activities. May be repeated to a maximum of twelve hours when identified under different subtopics. Prereq: Graduate standing in Theatre.

TA 620 APPLIED RESEARCH IN THEATRE (Subtitle required). (3)
This course focuses on the application of performance/production research to the actual production of a dramatic text. Students will investigate the work of a selected writer, examine critical and institutional/relative to the writer, and then apply this research to the production of one play. The play will be produced as a part of the department’s Studio Season. May be repeated to a maximum of six credits.

TA 625 ADVANCED STYLES OF ACTING. (3)
The rehearsal and performance of scenes and class exercises in the acting styles and techniques of selected playwrights and directors. Prereq: TA 327.

TA 630 ADVANCED DRAMATURGY PRACTICUM. (1-3)
The study and practice of directing techniques required for theatrical production. May be repeated to a maximum of six credits. Prereq: TA 730, consent of instructor and filing of prospectus.

TA 631 SOCIAL ACTION DRAMATURGY. (3)
A field based learning experience in the student’s area of expertise conducted at a nationally recognized theatre venue. The internship appointment is secured by the student with the consent and supervision of a faculty advisor. May be repeated to a maximum of 12 hours. Prereq: Completion of course requirements in Ph.D. program, consent of instructor, and filing of prospectus.

TA 649 MASTER’S THESIS RESEARCH. (0)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

TA 650 DISSERTATION RESEARCH. (0)
Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for 2 full-time semesters. Prereq: TA 649 following successful completion of qualifying examination.

TA 670 THEATRE PRACTICE: EFFECTIVE ARTISTIC COMMUNICATION. (3)
This course is designed to foster collaboration among members of the artistic team, examine each member’s role, and develop communication skills through practical application. Prereq: Graduate standing in Theatre.

TA 678 RESIDENCE CREDIT FOR MASTER’S DEGREE. (1-6)
May be repeated to a maximum of 12 credits.

TA 679 RESIDENCE CREDIT. (0-12)
Residence Credit for the Doctoral Degree. May be repeated indefinitely.

TA 700 EXPERIMENT IN DIRECTING. (1-2)
This course is designed to foster collaboration among members of the artistic team, examine each member’s role, and develop communication skills through practical application. Prereq: Graduate standing in Theatre.

TA 702 THEATRE INSTITUTE. (3-6)
A field based learning experience in the student’s area of expertise conducted at a nationally recognized theatre venue. The internship appointment is secured by the student with the consent and supervision of a faculty advisor. May be repeated to a maximum of 12 hours. Prereq: Completion of course requirements in Ph.D. program, consent of instructor, and filing of prospectus.
TA 711 ADVANCED STUDIES IN THEATRE (1-3) May be repeated to a maximum of six credits. Prereq: Graduate Standing in Theatre.

TA 780 INDEPENDENT STUDY IN THEATRE (0-6) May be repeated to a maximum of six credits. Prereq: Graduate Standing in Theatre.

TEL 101 TELECOMMUNICATIONS: MASS COMMUNICATION SYSTEMS (3) An overview of the principles of mass communications, emphasizing their historical development and interrelationships with economics, policy, and society. These include traditional issues in the regulation of telecommunications, as well as new areas of concern, such as cable television, radio, and public service. This course will focus on a single topical issue in the theory, research, and criticism of electronic media. Course will be offered in the fall and spring semesters only. May be repeated to a maximum of three semester hours. Prereq: Consent of instructor. (Same as BIO 560.)

TEL 303 TELECOMMUNICATIONS RESEARCH METHODS (3) An introduction to quantitative and qualitative social research methods used in telecommunication, including survey and experimental methods, research design, and data analysis.

TEL 310 TELECOMMUNICATIONS POLICY AND REGULATION (3) A study of public policy as it applies to telecommunications in the United States, including the Federal Communications Commission, the impact of technological change on the industry, and the role of government in promoting competition. Prereq: TEL 300 or consent of instructor.

TEL 312 VIDEO PRODUCTION (3) An introduction to the fundamentals of studio video production, from concept to completed product. Practical training in video production equipment will be offered. Lecture, two hours; laboratory, two hours per week. Prereq: Telecom major status or consent of instructor.

TEL 319 WORLD MEDIA SYSTEMS (3) A comparison of the communications media in different countries of the world. May be repeated to a maximum of six credits. Prereq: Consent of instructor. (Same as SOC 319.)

TEL 322 MULTIMEDIA (3) Techniques in introduction to multimedia production and the basic principles of communication via multimedia. Practical, hands-on experience with various media used in computer-based multimedia including text, still graphics, animation, sound, and hyperlinking. Includes standalone computer and Web-based applications. Lecture, two hours; laboratory, two hours per week. Prereq: Telecom major status or consent of instructor.

TEL 355 COMMUNICATION AND INFORMATION SYSTEMS IN ORGANIZATIONS (3) An examination of the roles and functions of a variety of communication systems and information systems used in organizations. This includes the study of communication processes across a variety of systems, including the telephone, e-mail, videoconferencing, and internet. It also includes an examination of the uses for a variety of information systems and technologies, including computer networks, integrated voice response systems, computer telephony integration, call centers, automated attendants, voice recognition, and synthesis, database management systems, and a variety of additional hardware and software in the field of telecommunication today. Prereq: Telecom major status or consent of instructor.

TEL 390 SPECIAL TOPICS IN TELECOMMUNICATIONS PRODUCTION (3) Course will focus on selected topics in the practice and theory of electronic media production. Course will be offered on demand. May be repeated to a maximum of six credits under a different subtitle. Prereq: Consent of instructor.

TEL 412 VIDEO PRODUCTION (3) A follow-up to TEL 312, this course is an advanced video production course focusing on electronic field production (EFP). This course features technical and creative aspects of directing, camera work, editing, and lighting. Lecture, three hours; laboratory, one hour per week. Prereq: TEL 411 or consent of instructor.

TEL 420 ELECTRONIC MEDIA CRITICISM (3) Examination of each of several critical approaches to the study of electronic media. This course will examine the critical analysis of the written work and in the writing of critical pieces. Prereq: Telecom major status or consent of instructor.

TEL 432 AUDIO PRODUCTION (3) Techniques of audio production, including basic machines, mixing consoles, microphones, patch panels, the production mixing. Different audio products are discussed. Lecture, laboratory, two hours per week. Prereq: Telecom major status or consent of instructor.

TEL 453 MASS COMMUNICATION AND SOCIAL ISSUES (3) A course devoted to an examination of the mass media and an evaluation of the relationship of mass communication to popular social issues. Prereq: TEL 300, or COM 249, COM 351 and COM 365; or consent of instructor. (Same as SOC 355.)

TEL 462 ELECTRONIC MEDIA SALES MANAGEMENT (3) The data and techniques of radio and television advertising, including problems of coverage and selection, spot campaigns, telemarketing, buying, the agency, measuring broadcast effectiveness, merchandising radio and television advertising and time selling. Prereq: Telecom major status or consent of instructor.

TEL 472 MULTIMEDIA I (3) An overview of the fundamentals of studio video production and the basic principles of communication via multimedia. Practical, hands-on experience with various media used in computer-based multimedia including text, still graphics, animation, sound, and hyperlinking. Includes standalone computer and Web-based applications. Concepts and theory will be presented in the lecture portion, while the laboratory will be devoted to actual sample analysis by the students. Lecture: 1 hour; laboratory: 1 hour per week. Prereq: TEL 310 or consent of instructor.

TEL 504 MEDIA ORGANIZATIONS (3) An examination of the structure of video entertainment and on-line communications organizations and industries. Includes the organization and management of various types of telecommunications properties, as well as general management of both public and private competitors. Prereq: Telecom major status or consent of instructor.

TEL 510 MEDIA ECONOMICS (3) Exploration of the economics of information industries, with particular attention to the structure of the telecommunication industries, the economics of broadcasting, the economic behavior of communications channels, and the role of information in the marketplace, marketing, and other dimensions of the media and telecommunications industries. Prereq: TEL 300; or consent of instructor.

TEL 520 SOCIAL EFFECTS OF THE MASS MEDIA (3) An examination of the political, social, cultural, and behavioral effects of telecommunications systems in American society. Focus on theory and research generated since 1940. Prereq: TEL 300 or consent of instructor.

TEL 530 PRO-SEMINAR IN TELECOMMUNICATIONS (3) Discussion and reports on current trends in telecommunications industries and the businesses that support them, including manufacturing, cross ownership rules, mergers, and illegal practices. Prereq: Consent of instructor.

TEL 555 CYBERSPACE AND COMMUNICATION (3) An examination of the political, social, cultural, and behavioral effects of on-line communication systems, including systems for various forms of personal communication, information retrieval, transaction processing, monitoring, and other potential applications. Lecture, three hours; laboratory, one hour per week. Prereq: TEL 300 or consent of instructor.

TEL 590 SPECIAL TOPICS IN MEDIA STUDIES (1-3) Course will focus on a single topical issue in the theory, research, and criticism of electronic media. Course will be offered on demand. May be repeated to a maximum of six credits under a different subtitle. Prereq: Consent of instructor.

TOX 509 RESEARCH METHODS IN TOXICOLOGY (1-3) The course provides students with an understanding of the basic approaches and methods used in toxicology to solve real-world problems. Students will be able to design, conduct, and interpret research projects on toxicological topics. Prereq: Consent of instructor. (Same as BIO 510.)

TOX 509 BIOCHEMICAL AND ENVIRONMENTAL TOXICOLOGY (3) Presentation of basic and advanced concepts to provide an integrated description of toxicology at the cellular and molecular levels. Emphasis will be placed on the physiological and toxicological effects of chemicals on natural biota, including considerations at cellular, organismal, and ecosystem levels. Course will be offered on an as needed basis. Prereq: Consent of instructor.

TOX 560 ENVIRONMENTAL PHYSIOLOGY AND TOXICOLGY (3) Emphasis will be placed on the physiological and toxicological effects of chemicals on natural biota, including considerations at cellular, organismal, and ecosystem levels. Course will be offered on an as needed basis. Prereq: Consent of instructor. (Same as BIO 560.)

TOX 670 CHEMICAL CARCINOGENESIS (3) Lectures and discussion of the chemical and biochemical reactions of chemical carcinogens and their metabolites. Prereq: CHE 232; PHR 400; or BCH 501, 502. (Same as PHA 670.)

TOX 680 MOLECULAR MECHANISMS IN TOXICOLOGY (3) An introduction to the fundamental mechanisms of the toxicological actions of chemicals. Prereq: Consent of instructor.

TOX 690 PRACTICAL ANALYTICAL TOXICOLOGY (3) An evaluation of techniques for the isolation, identification, and quantitation of drugs, poisons, and other xenobiotics in biological samples. Concepts and theory will be presented in the lecture portion, while the laboratory will be devoted to actual sample analysis by the students. Lecture: 1 hour; laboratory: 1 hour per week. Prereq: Consent of instructor and graduate standing in toxicology. (Same as VS 690.)

TA 748 MASTER’S THESIS RESEARCH (0) Half-credit to full-time work on research leading to a maximum of six semester hours. Prereq: Consent of instructor. All coursework toward the degree must be completed.

TA 749 DISSERTATION RESEARCH (0-12) May be repeated to a maximum of twelve semester hours. Prereq: Consent of Director of Graduate Studies.

TA 757 DISSERTATION DEFENSE (0) May be repeated to a maximum of three semester hours. Prereq: Consent of Director of Graduate Studies.

TOX 768 RESIDENCY CREDIT FOR THE MASTER’S DEGREE (0-12) May be repeated indefinitely. Prereq: Consent of Director of Graduate Studies.

TOX 770 TOXICOLOGY SEMINAR (0-6) A specialized seminar focusing on current topics of toxicological significance. Registration each semester and for spring semester only of all toxicology majors until residency requirements for the degree have been completed. May be repeated to a maximum of three semester hours each semester for a maximum of two credits during entire graduate course work.

TOX 780 SPECIAL PROBLEMS IN TOXICOLOGY (0-12) Exposure to and actual research experience in an area of toxicology other than that encountered by students in their thesis and dissertation research. May be repeated to a maximum of six credits. Prereq: Consent of instructor.

UK 100 UNIVERSITY COURSE (0-3) This course permits the offering at the introductory level of special courses of an interdisciplinary, topical, or experimental nature. Each semester, a maximum of six such courses of an interdisciplinary, topical, or experimental nature may be offered for the fall and spring semesters only. Consent of instructor, depending on the content of the course.
This document contains course descriptions and program details from the University of Kentucky. It includes sections on veterinary science, law, and general science courses. The text is structured in a way that each course is described with its title, prerequisites, and credit hours. Some courses are from the Veterinary Science program, such as VS 764 VETERINARY PATHOLOGY and VS 786 ADVANCED VETERINARY PATHOLOGY. The College of Law offers courses like LAW 815 CIVIL PROCEDURE I and LAW 822 LEGAL DraftING. There are also sections on humanities and social sciences, including VS 351 PRINCIPLES OF ANIMAL HYGIENE AND DISEASE CONTROL and USP 120-149 HUMANITIES. The text is formatted in a typical academic course catalog style, with clear headings and brief descriptions of each course.
LAW 842 SPORTS LAW. (3) Survey of regulatory and contractual aspects of this multi-billion dollar industry. Includes issues related to intercollegiate athletics; professional recruitment and contracting; labor and anti-trust issues; liability of teams and attendants.

LAW 845 JURISPRUDENCE. (2) This course presents a survey of the various schools of legal thought where law is viewed as an exercise of ultimate or intellectual "value systems" necessarily inform judges' decisions; and how they might therefore influence one's choice of legal argument in court. Students will include: formalism, formalism, legal positivism, process theory, legal realism, law and economics, critical legal studies, feminist legal theory, and critical race theory, among others.

LAW 850 LEGAL ACCOUNTING. (2-3) This course is designed to introduce students to general bookkeeping and accounting principles. Emphasis will be on understanding the relevance of accounting judgments to legal issues rather than economic relevance. Textbook: Blue Sky law.

LAW 851 BUSINESS ASSOCIATIONS. (4) Legal introduction to organization, partnership, emphasis on nature and structure under modern American business corporation law. Areas: partnership planning (formation, profit, rights, obligations, and liquidation rights); steps for corporate organizing (including legal consequences of defective incorporation); nature of corporate entity concept; corporate liability and management (including provisions of close corporation); fiduciary duties of directors and controlling shareholders under state law; nature and characteristics of shareholders' derivative actions; corporate accounting. Prereq: Completion of first-year law study generally is expected.

LAW 855 CORPORATION LAW. (3) A study of selected aspects of corporate law including: corporate organization and promotion; capitalization and (special emphasis on senior securities and their characteristics); corporate distributions (dividends); corporation dissolution (including provisions of accrued dividends); public regulation of security issues (Securities Act of 1933 and Blue Sky laws).

LAW 860 BUSINESS PLANNING. (3-4) Problems in federal and state income taxation.

LAW 861 TAXATION OF BUSINESS ENTERPRISES. (2) Federal income taxation of transactions between partners and their shareholders and their corporation; organization of partnerships; regulation of distributions, public expressing of income taxes (Securities Act of 1933 and Blue Sky law).

LAW 864 REAL ESTATE TRANSACTIONS. (3) This course covers numerous issues related to real estate conveyancing, including: estate planning, title assurance, and financing the transactions. Prereq: Property.

LAW 865 ESTATE AND GIFT TAXATION. (3) Donative transfers of property, including in ter vivos transfers and wills, income, estate, and gift tax consequences of the various methods of disposition, administration of estates.

LAW 872 LAND USE PLANNING. (2-3) A comprehensive study of the legal basis of the local land planning devices to control use of land; theories of land use planning, nuisance, private agreements, zoning and other legal devices for controlling how land is used; land planning, exercise of eminent domain, and selected Kentucky problems, such as rural zoning and proposed New Towns for Appalachia.

LAW 874 BANKING LAW. (2-3) History of banking: overview of agencies which regulate bank activities; formation and regulation of bank holding companies; bank mergers and acquisitions; branch banking; antitrust considerations; trust operations conducted by banks; impact of securities legislation on banking. Prereq: LAW 860 and LAW 861.

LAW 876 SECURITIES REGULATION. (4) The law governing the sale and trading of securities under the Securities Act of 1933 and the Securities Exchange Act of 1934, the obligation to register securities; public offerings by issuers; secondary distribution, especially by underwriters; the distinction between underwriters, including definition of a "security" and the exemptions from registration requirements; insider trading prohibitions; antifraud provisions in this area, securities laws and federal courts, proxy solicitations and the purchase and sale of securities.

LAW 878 TRUSTS AND ESTATES. (4) An elective course for law students. Examination of rules governing intestate distribution of property; formal requirements governing execution, alteration and revocation of wills; require-
LAW 936 INTELLECTUAL PROPERTY
3 (2 or 3) Intellectual Property Transactions deals with legal problems in the commercialization of intellectual property. It covers, among other things, license, confidentiality agreements, and intellectual property financing. Prereq: LAW 935 or permission of the instructor.

LAW 937 INTERNATIONAL TAX.
3 This course examines the U.S. federal tax implications of international transactions, covering both inbound and outbound transactions. Prereq: LAW 980.

LAW 950 SEMINAR
1-3 Seminar in selected legal problems. Normally, each seminar is centered upon a particular field of legal learning, such as office practice, current constitutional litigation, etc. May be repeated to a maximum of 10 credits.

LAW 957 DEPARTMENT OF PUBLIC ADVOCACY
3 Independent study of legal problems under faculty supervision, and supervised training in legal aid, moot court and legal writing. May be repeated to a maximum of 4 credit hours. Prereq: Completion of 2nd year of law school.

LAW 959 LEGAL CLINIC.
3 This is a graded two or three hour practice-oriented course that provides third year students with a unique opportunity to represent low income elderly individuals on a variety of legal matters. Under the supervision of the Kentucky Supreme Court’s limited practice rule, and with the supervision of the clinical director, students will represent clients in negotiating, mediating, and in administrative hearings or in court procedures. Students will also interview clients, draft legal documents, file pleadings, and conduct discovery.

LAW 890 RESEARCH PROBLEMS.
1-3 In the second year all students who successfully complete the intra-school competition and are asked to become a member of the Board will receive one hour of pass/fail credit at the end of the spring semester of the third year for meaningful participation in the activities of the Board, which includes national intra-school competition and completing the second year membership competition. Prereq: LAW 890.

LAW 961 MOOT COURT BOARD.
1-2 Second year continuing legal education credit. Those selected for the Moot Court Board receive an additional two hours credit in the third year. Offered on a pass/fail basis only. May be repeated to a maximum of 10 credits.

LAW 962 KENTUCKY LAW JOURNAL.
1-3 This course, required of all members of the Law Journal staff, offers experience in law review, and the process of publication of a scholarly periodical. Offered on a pass/fail basis only.

LAW 963 JOURNAL OF NATURAL RESOURCES AND PUBLIC POLICY.
3 The course required of all members of the Journal of Natural Resources and Environmental Law, offers experience in legal writing, editing and the process of publication of a scholarly journal. Pass-fail only.

LAW 964 JUDICIAL CLERKSHIP.
2 Clerking for trial and appellate judges. May be repeated once with permission of the Dean. Offered on a pass/fail basis.

LAW 965 LEGAL INTERNSHIP.
2 Seminar in selected legal problems under the limited practical experience rules of the Kentucky Supreme Court. Instruction and practice in investigation, preparation and trial advocacy. Open to third year students on a pass-fail basis once with permission of the Dean. Offered on a pass/fail basis.

LAW 966 MOOT COURT NATIONAL TEAM.
2 Participation in the national Moot Court National Team. National Team members shall sign for this course instead of 961 in their third year.

LAW 967 PRISON INTERNSHIP.
3 Supervised handling of cases for prisoners at the Federal Courthouse and the circuit and circuit in practice and in trial. Prereq: Any course prerequisite. Offered for a pass/fail basis.

LAW 969 SENIOR RESEARCH PROBLEMS.
2 Independent study of legal problems under faculty supervision, and supervised training in legal aid, moot court and legal writing. May be repeated to a maximum of six credits.

LAW 970 SEMINAR.
3 Independent study of legal problems under faculty supervision, and supervised training in legal aid, moot court and legal writing. May be repeated to a maximum of six credits.

CDE Community Dentistry

CDE 814 PATIENTS, DENTISTS AND SOCIETY.
1 This course aims to orient the student to the place of health and health professions play in modern cultures. Recognition of their own social assumptions and values and those of persons of different background is encouraged. Understanding, predicting, and changing dental patient behavior from a social standpoint is emphasized. (Same as BSC 814.)
This course introduces the students to the principles of nitrous oxide oxygen inhalation sedation and intravenous sedation in dentistry. The management of emergencies associated with these techniques and an introduction to the principles of general anesthetics are also included. Lecture, 21 hours; clinic, four hours. Prereq: CDS 821, OBI 826.

CDS 833 CLINICAL PATIENT MANAGEMENT. (1)

This course introduces the dental student to various special needs conditions and teaches the proper methods of physical management of special needs patients needed to provide dental care. Management of all assigned dental patients is required. Instruction leading to recertification in cardipulmonary resuscitation is also included. Lecture, 24 hours; laboratory, 3 hours; clinic, 3 hours per term. Prereq: CDS 823.

CDS 835 DENTAL IMPLANTOLOGY. (1)

This course contains information on patient centered criteria for implant place and treatment, surgical considerations, and prossthesis driven treatment results. The student will have the opportunity to familiarize himself/herself with the components used in providing such treatment through a hands-on laboratory session. Lecture, 24 hours; laboratory, 12 hours. Prereq: Admission to College of Dentistry or discretion of course director.

CDS 840 NEW DEVELOPMENTS IN DENTISTRY IV. (1-2)

This course will cover selected new developments in dentistry or treat with added emphasis established dental skills and knowledge. The topics to be presented include 1) the basics of science, behaviors, science, clinical dentistry, dental practice management, and community dentistry. Methods of instruction will vary, depending on topics. When the course is offered, the student is required of fourth year dental students. May be repeated to a maximum of four credits. Prereq: Fourth-year standing in the College of Dentistry; any course prerequisite may be required for this course. Lecture; 24 hours.

CDS 843 MANAGEMENT IV: GERIATRIC DENTISTRY. (1)

Emphasis in this course is placed on developing abilities to make individualized decisions for geriatric patients, which are one of the groups required of fourth year dental students. May be repeated to a maximum of four credits. Prereq: Fourth-year standing in the College of Dentistry; any course prerequisite may be required for this course. Lecture; 24 hours.

CDS 844 DRUG MISUSE, ABUSE AND DEPENDENCY: WHAT DENTISTS NEED TO KNOW. (1)

This course integrates the scientific and historical foundations of prevention, recognition and treatment of patients with, and at risk for, drug misuse and abuse. The course enables dental students to understand basic principles of drug dependence and to develop more complex skills in the areas of identification and treatment of drug-related problems. The area of temporomandibular disorders will be emphasized since the dentists have a major role in managing these pain disorders. Lecture, 29 hours; laboratory, 1 hour; clinic, 6 hours. Prereq: ANA 534, OBI 829, OSG 820, and RSD 822.

END Endodontics

END 820 ANTERIOR ENDODONTICS. (2)

This is a lecture-laboratory course which is designed to introduce the student to the diagnostic terminology of pulpal and periapical disease and the techniques of endodontics in anterior teeth. Lecture, 10 hours; laboratory, 10 hours; clinical, 30 hours. Prereq: RSD 812 and RSD 814, or consent of course director.

END 821 CLINICAL ENDODONTICS I. (1)

In this course, students will treat two clinical endodontic cases, one of which shall be a molar. Thirty hours clinic, total. Prereq: END 820.

END 822 POSTERIOR ENDODONTICS. (2)

This is a lecture-laboratory course which is designed to introduce the student to the diagnostic terminology of pulpal and periapical disease and the techniques of endodontics in posterior teeth. Lecture, 10 hours; laboratory, 10 hours; clinical, 30 hours. Prereq: END 820 and RSD 824, or consent of course director.

END 830 CLINICAL ENDODONTICS II. (1)

This course is designed to deal with diagnosis and treatment of endodontic related problems. Traumatic injuries, controversies in instrumentation and filling endodontic canals, radiographic examination, surgical endodontics and other selected topics are discussed in depth. Lecture, 20 hours. Prereq: END 821.

END 831 CLINICAL ENDODONTICS III. (1)

This course provides the student with the opportunity to experience in providing endodontic treatment. Clinic, 40 hours. Prereq: END 831 or consent of instructor.

OBI Oral Biology

OBI 650 ORAL BIOLOGY FOR POSTGRADUATE DENTAL STUDENTS. (1)

This seminar course provides a review of selected biological science topics. Emphasis is placed on the use of current literature for an in-depth study of topics relevant to dental students. Lecture: 32 hours. Prereq: Admission to an advanced education program of the College of Dentistry or consent of instructor.

OBI 651 ORAL BIOLOGY FOR POSTGRADUATE DENTAL STUDENTS II. (1)

This course is a seminar that uses the scientific literature to review selected biological science topics with emphasis on those especially relevant to dental practice. Lecture: 32 hours. Prereq: OBI 650. Coreq: OBI 841, OBI 826, CDS 810, CDS 815, and ODS 831. (Same as PH 840.)

ODM Oral Diagnosis and Oral Medicine

ODM 820 ORAL AND MAXILLOFACIAL IMAGING. (3)

This course is designed to achieve proficiency in radiographic technique and interpretation of intraoral and extraoral dental, facial and panoramic radiographs. The course is designed to teach the proper methods of radiographic procedures for the dentist are included. Lecture/proctor based learning/seminar/hands-on technique application; 32 hours. Prereq: CDS 815 or consent of course director.

ODM 821 CLINICAL ORAL DIAGNOSIS. (1)

This course consists of two components: 1) examination, diagnosis, and treatment planning for patients assigned to dental students in general clinics; and 2) an emergency clinic assignment in which the students will diagnose and treat patients with acute oral problems. Clinic, 30 hours. Prereq: CDS 821, OBI 829, CDS 810, and OBI 826. Coreq: OBI 812.

ODM 830 MANAGEMENT OF THE MEDICALLY COMPROMISED DENTAL PATIENT. (3)

This course will provide students with knowledge required to manage medically compromised patients in the outpatient dental office. Basic clinicopharmacologic information about commonly occurring medical disorders, the impact medications that these patients take have, the special problems they have, and their effects on oral health will be covered. Lecture, 34 hours; clinic, 4 hours. Prereq: Approval of dean and/or his designee for academic affairs and the course director.

ODM 831 CLINICAL ORAL DIAGNOSIS II. (1)

This course is a continuation of ODM 821 and also consists of two components: 1) examination, diagnosis and treatment planning for patients assigned to dental students in general clinics; and 2) emergency clinic assignments in which the students will diagnose and treat patients with acute oral problems. Clinic, 40 hours. Prereq: ODM 821; coreq: CDS 822.

ODM 841 CLINICAL ORAL DIAGNOSIS III. (1)

This course is a continuation of ODM 831 and consists of two components: 1) examination, diagnosis and treatment planning for patients assigned to dental students in general clinics, and 2) emergency clinic assignments in which the students will diagnose and treat patients with acute oral problems. Clinic, 40 hours. Prereq: ODM 830 and ODS 831.

OFP Oral Health Practice/Orofacial Pain Center

OFP 634 CURRENT CONCEPTS IN TEMPOROMANDIBULAR DISORDERS. (3)

This course provides the student with information on the anatomy, physiology and function of the masticatory system. The etiology, diagnosis and treatment of temporomandibular disorders will be emphasized. Lecture, 41 hours; laboratory, 15 hours per semester. Prereq: Acceptance into the College of Dentistry M.S. Program and/or consent of the College of Dentistry’s Director of Graduate Studies and the course director.

OFP 636 CLINICAL MANAGEMENT OF TEMPOROMANDIBULAR DISORDERS. (3)

This course provides the student with clinical experience in the diagnosis and management of temporomandibular disorders. The student will provide treatment for patients referred to the Orofacial Pain Center under the supervision of the course director. Clinic, 44 hours. Prereq: Acceptance into the College of Dentistry M.S. Program and/or consent of the College’s Director of Graduate Studies and the course director.

OFP 700 OROFACIAL PAIN TREATMENT SEMINAR. (2)

This course will provide the student with experience in diagnosing and treatment planning various orofacial pain patients. Lecture: 32 hours per year or 16 hours per semester. Prereq: Acceptance into the College of Dentistry M.S. Program and/or consent of the College’s Director of Graduate Studies and the course director.

OFP 734 CURRENT CONCEPTS IN OROFACIAL PAIN. (3)

This course provides the student with an advanced overview of the orofacial pain syndromes. The etiology and differential diagnosis of headache and neck pain will be emphasized. The student will learn the diagnosis and management of the complex facial pain problems. Prereq: OFP 634 and OFP 636.
OHP Oral Health Practice

OHP 650 INDEPENDENT WORK IN ORAL HEALTH PRACTICE. (1-3)
An elective course offered by the department of Oral Health Practice. Students may work on individual projects in one or more of the clinics under the direction of a faculty member. The work should involve independent labora
tory, research, clinical and include supporting literature searches. Lecture. 36 hours. Prereq: Dental degree and enrollment in a College of Den
tistry postgraduate program, or consent of instructor.

OHS Oral Health Science

OHS 650 INDEPENDENT WORK IN ORAL HEALTH SCIENCE. (1-3)
An elective course offered by the department of Oral Health Science. Students may work on individual projects in one or more of the clinics under the direction of a faculty member. The work should involve independent labora
tory, research, clinical and include supporting literature searches. Lecture. 36 hours. Prereq: Dental degree and enrollment in a College of Den
tistry postgraduate program, or consent of instructor.

OPT Oral Pathology

OPT 650 GRADUATE ORAL PATHOLOGY. (2)
This course is a required course in which students study microscopic, radiographic, and clinical features of diseases that affect oral and periapical areas. A case study format is used to discuss both common and rare conditions that illustrate major disease categories and to provide a framework for developing a systematic approach to disease diagnosis. Lecture: 36 hours. Prereq: Dental degree and enrollment in a College of Den
tistry postgraduate program, or consent of instructor.

OPT 651 ORAL PATHOLOGY. (2)
This is a comprehensive lecture course on oral and paranasal diseases. The course deals mainly with the clinical aspects of oral disease, with emphasis on the specialized areas of radiographic appearance, etiology, management and prognosis. Lecture, 41 hours, and 4 one-hour exams. Prereq: OPT 832.

OPT 832 ORAL PATHOLOGY I. (2)
This course teaches the dental student an effective approach to patients with oral lesions. It will stress the following: development of a reasonable differential diagnosis list, procedures to be used in obtaining a definitive diagnosis, management of the patient after a diagnosis has been made, and treatment if indicated. Attendance at one lecture and one session of Head and Neck Oncology Clinic is included in the course. Seminar, 26 hours; clinic, three hours. Prereq: OPT 830.

OPT 840 ORAL PATHOLOGY II. (3)
This is an advanced oral pathology in which various diseases and abnormal conditions of the head, neck and oral cavity are presented. The pertinent information on several selected cases will be presented with an oral presentation. This lecture course includes a lecture-discussion period for the development of a differential diagnosis, establishment of a definitive diagnosis, and discussion of treatment modalities and prosthetic procedures. Head and Neck Oncology Clinic included in the course. Lecture, 21 hours; clinic, three hours. Prereq: CDS 812.

OPT 850 ORAL PATHOLOGY ELECTIVE. (1-10)
Elective courses offered by the Department of Oral Pathology provide opportunities for further study of or experience in various aspects of oral pathology. Course topics may include, but are not limited to, clinical and histologic diagnosis, the management of patients with oral disease, and management of oral diseases. Hours vary, ranging from a minimum of 16 lecture/units to a maximum of 100 lecture/units. May be repeated for a maximum of 100 hours. Prereq: Admission to the College of Dentistry.

OFT Oral and Maxillofacial Surgery

OFT 651 ANATOMICAL RELATIONSHIPS IN SURGERY. (1)
A seminar course for dental graduate students in areas other than surgery, emphasizing anatomical and surgical principles applicable to all specialty student programs of the College of Dentistry; D.D.S. or M.D. degree.

OFT 820 ORAL SURGERY. (3)
This course is designed to teach the student the significance of a history and physical examination, how to identify and use basic oral surgery instruments, how to perform basic oral surgical procedures, including the preparation of the mouth for dentures. Lecture, 20 hours. Prereq: CDS 811 or consent of course director.

OSG Oral and Maxillofacial Surgery

OSG 651 ANATOMICAL RELATIONSHIPS IN SURGERY. (1)
A seminar course for dental graduate students in areas other than surgery, emphasizing anatomical and surgical principles applicable to all specialty student programs of the College of Dentistry; D.D.S. or M.D. degree.

OSG 820 ORAL SURGERY. (3)
This course is designed to teach the student the significance of a history and physical examination, how to identify and use basic oral surgery instruments, how to perform basic oral surgical procedures, including the preparation of the mouth for dentures. Lecture, 20 hours. Prereq: CDS 811 or consent of course director.

OSG 831 ORAL SURGERY ROTATION. (1)
This course teaches the management of the ambulatory oral surgical patient. It includes patient evaluation, control of pain and anxiety, performance of minor oral surgical procedures, treatment of acute and chronic oral infections and of complications associated with oral surgery, and the use of the problem-oriented record. Slide-text programs and reading assignments supplement the outpatient clini
cal experience. Clinic, 48 hours. Prereq: CDS 821 and OSG 820 or consent of course director.

OSG 841 ORAL SURGERY ROTATION. (1)
In this course students learn the management of oral surgical patients in a hospital setting. It consists of two periods of duty (two academic years) providing oral surgery hospital service, including standing-in-hospital night call with the oral surgical resident staff. Students will learn and perform procedures such as exodontia and biopsy. Oral surgical manage
cement of comprehensive care patients in the outpatient clinic is also included. Clinic, two weeks. Prereq: OSG 830 and OSG 831.

PDO Pediatric Dentistry

PDO 610 PEDIATRIC DENTISTRY SEMINAR. (2)
This seminar course is the first in a series of four such seminars that discuss essential aspects of clinical pediatric dentistry, with emphasis on the scientific evidence supporting contemporary practice. These four consecutive seminar courses cover four semesters (two aca
demic years) and provide the oral surgery student with a conceptual basis for caring for the oral health of children. This initial two-hour per semester seminar addresses: effective communication with children, strategies for management of children’s behavior in the clinical setting, development of the denti
tion, oral health management of children, and management and treatment of caries, and restoration of carious teeth. Prereq: Enrollment in the College of Dentistry’s Master of Science degree program in the Pediatric Dental Group.

PDO 620 PEDIATRIC DENTISTRY SEMINAR. (2)
This course seminar is the second in a series of four such seminars that discuss essential aspects of clinical pediatric dentistry, with emphasis on the scientific evidence supporting contemporary prac
tice. These four consecutive seminar courses cover four semesters (two aca
demic years) and provide the oral surgery student with a conceptual basis for caring for the oral health of children. This second seminar in the series consists of sixteen two-hour per semester sessions (32 hours) and addresses: effective communication with children, strategies for management of the arch circumference of the developing child, clinical management of the child with cleft lip/palate, speech pathology, burns affecting the oral cavity, the use of antimicrobials, and medical complications affecting oral health care. Prereq: Enrollment in the College of Dentistry’s Master of Science program in the Pediatric Dental Group.
PER 630 PEDIATRIC DENTISTRY SEMINAR. (2)
This seminar precludes any of the four seminars, in that it discusses essential aspects of clinical pediatric dentistry, with emphasis on the scientific evidence supporting contemporary practice. These four seminars, in the series of four seminars (two academic years) provide the pediatric dentistry graduate student with an overall basis for the oral health of children. This seminar series consists of sixteen two-hour sessions (32 hours) and addresses: developmental oral health principles. Orthodontic diagnosis, orthodontic treatment and the development of the dentoalveolar system, and elements of managing a successful pediatric dental practice. Prerequisite: Enrollment in the College of Dentistry Master of Science degree program in the Pediatric Dentistry track, and completion of PDO 610 and 620.

PER 640 PEDIATRIC DENTISTRY SEMINAR. (2)
This seminar precludes any of the four seminars, in that it discusses essential aspects of clinical pediatric dentistry, with emphasis on the scientific evidence supporting contemporary practice. These four seminars, in the series of four seminars (two academic years) provide the pediatric dentistry graduate student with an overall basis for the oral health of children. This seminar series consists of sixteen two-hour sessions (32 hours) and addresses: developmental oral health principles. Orthodontic diagnosis, orthodontic treatment and the development of the dentoalveolar system, and elements of managing a successful pediatric dental practice. Prerequisite: Enrollment in the College of Dentistry Master of Science degree program in the Pediatric Dentistry track, and completion of PDO 610 and 620.

PER 652 PERIODONTAL DENTISTRY II. (2)
In this course in dentistry for children, emphasis will be placed on principles of surgical procedures, advanced restorative techniques, diagnosis and treatment of traumatic injuries, preventive dentistry and diagnosis and treatment of oral habits and cosmetic dentistry. Lecture, 26 hours; laboratory, 6 hours; Prerequisite: Second year standing in the College in Dentistry.

PER 631 CLINICAL PEDIATRIC DENTISTRY. (2)
An advanced intermediate clinical course designed to teach comprehensive dental treatment for the child patient. Clinic, 75 hours. Coreq. PDO 830.

PER 634 CLINICAL PEDIATRIC DENTISTRY II. (2)
This course is intended for children with special needs. The child will have the opportunity to practice methods of good patient and patient management. Additionally, the student will become more proficient in technical skills. Prerequisite: PDO 833 or consent of instructor.

PER 661 ADVANCED CONCEPTS IN GENERAL DENTISTRY. (1)
This course is designed to prepare the beginning student for clinical instruction in oral anatomy and histology. It is a preclinical course for the student to be a general practitioner. Prerequisite: PDO 803 and consent of course director.

PER 748 MASTER’S THESIS RESEARCH. (10)
Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prerequisite: All coursework toward the degree must be completed.

PER 768 RESIDENCE CREDIT FOR THE MASTER’S DEGREE. (1-16)
May be repeated for a total of 16 hours. Prerequisite: Admission to the Periodontics postdoctoral program and consent of director of graduate studies.

PER 770 TREATMENT PLANNING SEMINAR. (2)
In this seminar, graduate students present and discuss diagnoses, prognosis, ideal treatment plans and alternative treatment plans for periodontal disease. Each student gives three case presentations. May be repeated to a maximum of eight credits. Lecture, 40 hours. Prerequisite: Admission to the Periodontics postdoctoral program or consent of director of graduate studies.

PER 772 PERIODONTAL BIOLOGY AND PATHOLOGY. (2)
A seminar designed to explore the current state of knowledge regarding periodontal disease, the pathogenesis of periodontal disease and the pathobiology of periodontal disease. The subjects area will be covered in four seminars. May be repeated four times for a total of 16 hours. Lecture, 40 hours. Prerequisite: Admission to the Periodontics postdoctoral program or consent of course director.

PER 774 PERIODONTOLOGY SEMINAR. (1)
In this seminar, graduate students present, discuss and critique surgical procedures that have been accomplished in the clinic.

PRO 822 PRECLINICAL COMPLETE DENTURE PROSTHODONIC (LECTURE). (2)
This course is designed to provide knowledge and skills necessary for patient care in operative dentistry. This includes a detailed description and a description of individual teeth, relationships of dentition and function, and preparation of suitable materials. Prerequisite: Admission to the college or consent of course director. Coreq. RSD 814.

PRO 831 CLINICAL REMOVABLE PROSTHODONTICS. (2)
This course precludes any of the four courses, in that it discusses essential aspects of clinical prosthetic dentistry, with emphasis on the scientific evidence supporting contemporary practice. These four courses, in the series of four seminars, provide the prosthetic dentistry graduate student with an overall basis for the oral health of patients. This course includes lecture, seminars and laboratory sections. Prerequisite: Admission to the Periodontics postdoctoral program or consent of course director.
RSD 821 CLINICAL RESTORATIVE DENTISTRY. (3) This course is designed to provide the student with an understanding of the principles underlying preclinical procedures. Concepts of diagnostic and therapeutic procedures as well as preventive measures are applied in the clinic with emphasis on the demonstration of competency in restorative care treatment procedures. Prereq: RSD 814; coreq: RSD 822.

RSD 822 PRINCIPLES OF DENTAL OCCULSION AND ARTICULATION. (3) This course is directed toward the examination, diagnosis, treatment planning, and treatment of various occlusal problems. The student will learn the skills needed to analyze the dental occlusion and to plan successful occlusal therapy including restoration procedures and fixed prosthodontic treatment. The course will concentrate on the here-to-date knowledge and learning assessment criteria related to mounted study casts, occlusal examination and analysis, selection of restorative materials, pre-waxing and planning, and the fabrication of a muscle relaxation occlusal splint. Lecture: 23 hours; laboratory: 27 hours; clinic: 27 hours. Prereq: CDS 815, RSD 812, or consent of instructor.

RSD 823 PRECLINICAL RESTORATIVE DENTISTRY 1. (3) This is a didactic course with emphasis on the basic knowledge required to treat the tooth as an integrated single tooth unit. Lecture, 14 hours. The materials science and correct manipulation of dental restorative materials is emphasized. Prereq: RSD 816, or consent of instructor.

RSD 824 PRECLINICAL RESTORATIVE DENTISTRY 2. (3) This preclinical course places emphasis on dental hard tissue surgery and on their restoration to meet the biological needs of the patient. Tooth preparation and extracoronal restorations are performed on manikins and extracted teeth. The materials science and correct manipulation of dental restorative materials is emphasized. Prereq: RSD 823, or consent of instructor.

RSD 825 PRECLINICAL RESTORATIVE DENTISTRY 3. (3) This is a preclinical course emphasizing on single indirect intracoronal restorations and the endodontically treated tooth. Prereq: RSD 823.

RSD 826 PRECLINICAL DENTISTRY II LABORATORY. (3) This is a preclinical course with emphasis on dental hard tissue surgery and restorative procedures for single tooth indirect restorations. Students will perform restorations on manikins and extracted teeth. Prereq: RSD 823, RSD 824, or consent of course instructor Coreq: RSD 825.

RSD 830 RESTORATIVE DENTISTRY MATERIALS. (4) In this course, the materials science, proper manipulation and biocompatibility of a wide variety of dental biomaterials are examined. Emphasis is placed on the manipulative techniques and the clinical applications of these materials. Lecture: 40 hours; laboratory: 40 hours. Prereq: RSD 812, or with approval of the course director.

RSD 831 CLINICAL RESTORATIVE DENTISTRY 1. (3) A continuation of RSD 821 as well as some clinical application of procedures learned in preclinical phase. The emphasis continues to be on the delivery of primary care type treatment with increasing competency and proficiency. Some emphasis is directed toward elements of the restorative process. Prereq: RSD 821, RSD 822, RSD 823, RSD 824, RSD 825, or consent of instructor.

RSD 832 ADVANCED AESTHETICS IN RESTORATIVE DENTISTRY. (2) This course is designed to introduce current concepts in esthetic restorative dentistry to undergraduate dental students in their third year. The techniques presented will build upon previously developed restorative didactic and clinical knowledge, but incorporate advanced restorative philosophy. Prereq: RSD 831, or consent of instructor. Some emphasis is directed toward esthetic treatment procedures performed on manikins and extracted teeth. Lecture: 120 hours; laboratory: 16 hours; hours per week. Prereq: RSD 810, 812, 814, 816, 818, 821, 822, 823/825, 824, 826, and 827.

RSD 840 RESTORATIVE DENTISTRY UPDATE. (4) This course provides in-depth instruction on advanced restorative dentistry clinical procedures and materials. Emphasis will be given to diagnosis, treatment planning and treatment of the complex restorative dentistry patient. The format of the course will be “clinical case presentation.” Prereq: RSD 830 and RSD 831.

RSD 841 CLINICAL RESTORATIVE DENTISTRY 2. (3) A continuation of RSD 825, this course is designed to build upon the knowledge gained from the preclinical courses. It focuses on clinical techniques and case management. Lecture: 23 hours; laboratory: 27 hours. Prereq: RSD 830, RSD 831, RSD 832, RSD 833, and RSD 834.

RSD 882 ESTHETIC DENTISTRY ELECTIVE. (1) This course is designed to introduce current concepts in esthetic restorative dentistry to undergraduate dental students in their fourth academic year. The techniques presented will build upon previously developed restorative didactic and clinical knowledge, but incorporate advanced esthetic dental procedures performed on manikins and extracted teeth. Emphasis will be given to diagnosis, treatment planning and treatment of the complex esthetic dentistry patient. The format of the course will be “clinical case presentation.” Prereq: RSD 830 and RSD 831.

RSD 883 INTRODUCTION TO SPORTS DENTISTRY. (1) Introduction to Sports Dentistry is an elective course designed to educate about the opportunities available to involved with sports teams in your community. The course will include: Types of dental injuries related to athletics, prevention of injuries, role of team dentist, types of sports guards and methods of fabrication of sports guards. Lecture: 10 hours; laboratory 6 hours, per course. Prereq: 4th year dental student in good standing; consent of instructor. This course will be outside the regular scheduled class/time.
ANA 503 INDEPENDENT WORK IN ANATOMY. (3) Prereq: Biology or psychology majors with sophomore, junior, or senior standing and consent of a faculty member.

ANA 511 INTRODUCTION TO HUMAN ANATOMY. (1-3) The principles of organization of the human body are presented. Gross anatomy terms initially follow a systemic plan. This is succeeded by a regional plan. Several methods of studying anatomy are utilized. These include radiology, palpation of living structures, and the demonstration of prosected fresh and fixed materials. Prereq: Some background in biology, including one or more such courses as biology, zoology, botany, comparative anatomy or embryology, and enrollment in the College of Medicine or a graduate program in the biomedical sciences. In addition, students from graduate programs outside of anatomy must obtain the consent of the course director before registration.

ANA 512 MICROSCOPY AND ULTRASTRUCTURE. (4) The student will be introduced to a variety of modes of light and electron microscopy. Depending on the number of credits a student registers for, and the topic and course orientation, laboratory work, library work, written and/or oral presentations may be a course requirement. Prereq: ANA 511, 512, 513, 515, or equivalents, or consent of instructor. (Same as BIO/PGY 511.)

ANA 515 SPECIAL TOPICS IN ANATOMY AND PHYSIOLOGY. (1-3) A lecture/seminar course offered based on contemporary topics in the Anatomical Sciences. Classroom and laboratory issues, teaching theory, portfolio development and presentation strategies are among the topics covered. Prereq: Admission to the graduate certificate program in the Anatomical Sciences or permission of the course director.

ANA 516 SELECTED TOPICS IN ADVANCED NEUROSCIENCE. (3-5) The objectives of this course are to advance the students' knowledge of the submicroscopic structure of cells and tissues. Correlation of intra- and extracellular morphology and function will be empha- sized. Students will do detailed studies on sections, whole mounts, and electron microscopy. Depending on the number of credits a student registers for, and the topic and course orientation, laboratory work, library work, written and/or oral presentations may be a course requirement. Prereq: ANA 512, previous work in microscopy including histology or cytology, or equivalents, and consent of instructor.

ANA 517 AGING OF THE NERVOUS SYSTEM. (3) This course will examine the alterations in the brain that occur with aging and the neurodegenerative diseases. The emphasis will be on human aging although the relevance of animal models to studies of human aging will be a recurrent theme. The course will examine aging at several levels, including molecular, cellular, organismic, and behavioral. Prereq: GRN 420. A strong background in the basic sciences. (Same as GRN/PGY 517.)

ANA 610 INTRODUCTION TO FUNCTIONAL MRI. (1) Prereq: (1) Introductory statistics (e.g. PSY 510, STA 570). (2) Permission of instructor.

ANA 629 TECHNIQUES OF ANATOMICAL RESEARCH. (2) The course will include lectures and laboratory experiences. The laboratory experiences will be used to comple- ment the study of human anatomy in the first year and of structure-function relationships, neurotransmitters, chemical con- nective tissues, smooth muscle, cardiac muscle, nervous system, reproductive biology. Prereq: ASC/PGY 601 and ASC 364 or BIO/PGY 502 or consent of instructor. (Same as ASC 660 and PGY 660.)

ANA 662 ULTRASTRUCTURAL ANATOMY. (2-5) A two-week experience which serves as a summation of the student's medical school experience and a transition to the role of practitioner. It will be taught using multiple educational formats. Lecture, 20-30 hours per week. Anatomical learning laboratory, 40 hours per week. Prereq: Admission to fourth year of medical curriculum. (Same as PHA 482.)

ANA 681 HISTOLOGY FOR PHYSICAL THERAPY STUDENTS. (2) An introduction to histology. Prereq: Prior course in biology, zoology, or botany.

ANA 801 HISTOLOGY FOR THE MASTER'S DEGREE. (0-12) Time to be arranged. Prereq: Consent of the instructor.

ANA 805 HISTOLOGY FOR THE DOCTOR'S DEGREE. (0-12) Time to be arranged. Prereq: Consent of the instructor.

ANA 806 SPECIAL TOPICS IN NEUROBIOLOGY. (1-3) A two-week experience which serves as a summation of the student's medical school experience and a transition to the role of practitioner. It will be taught using multiple educational formats. Lecture, 20-30 hours per week. Anatomical learning laboratory, 40 hours per week. Prereq: Admission to fourth year of medical curriculum. (Same as PHA 482.)

ANA 807 SPECIAL TOPICS IN NEUROBIOLOGY. (1-3) A two-week experience which serves as a summation of the student's medical school experience and a transition to the role of practitioner. It will be taught using multiple educational formats. Lecture, 20-30 hours per week. Anatomical learning laboratory, 40 hours per week. Prereq: Admission to fourth year of medical curriculum. (Same as PHA 482.)

ANA 808 HISTOLOGY FOR PHYSICAL THERAPY STUDENTS. (2) An introduction to histology. Prereq: Prior course in biology, zoology, or botany.

ANA 809 HISTOLOGY FOR THE MASTER'S DEGREE. (0-12) Time to be arranged. Prereq: Consent of the instructor.

Anaesthesia, (3) The introductory level of anaesthesia will be studied in a system-by-system format. The structure of the human body will be examined at various levels: basic anatomy and physiology integrated to prepare freshman students for nursing. Prereq: Successful completion of ANA 109. (Same as BIO/PHY 623.)

ANA 209 PRINCIPLES OF HUMAN ANATOMY. (3) Basic anatomy and physiology integrated to prepare freshman students for nursing. Prereq: Successful completion of ANA 109. (Same as BIO/PHY 623.)

ANA 395 INDEPENDENT RESEARCH IN ANATOMY AND PHYSIOLOGY. (1-3) Independent research with faculty members. May be repeated to a maximum of 12 credits. Prereq: Biology or psychology majors with sophomore, junior, or senior standing and consent of a faculty member.

ANA 398 ADVANCED CLINICAL PHARMACOLOGY AND ANESTHESIOLOGY. (3) This course will provide students with interactive small groups, and firsthand experience to introduce anaesthetics as it relates to pharmacology and physiology. The course also teaches pharmacology and thera- peutics utilizing case studies that develop the student's own personal formulations during the course. Laboratory, 40 hours per week. Prereq: Admission to fourth year of medical curriculum. (Same as PHA 482.)
BCH 395 INDEPENDENT WORK IN BIOCHEMISTRY. (3-12) Students will carry out a laboratory research project and related reference reading. Laboratory: 9.5-12 hours per week. May be repeated to a maximum of 12 credits. Prereq: Permission of instructor.

BCH 401G FUNDAMENTALS OF BIOCHEMISTRY. (3) Descriptive chemistry of amino acids and proteins, carbohydrates, lipids, and nucleic acids. Discussion of structure and function; metabolic pathways; and relationship to normal human development and clinical disease. Prereq: Completion of one year of college-level science courses. Lecture, one class meeting per week, one optional conference. Prereq CHE 107, CHE 236 and BIO 152 or equivalent.

BCH 402 DEVELOPMENTAL BIOCHEMISTRY EXPERIMENTAL METHODS IN BIOCHEMISTRY. (4) A laboratory course dealing with the instrumentation and procedures in biochemistry of amino acids, carbohydrates, lipids, and nucleic acids. Discussion of structure and function; metabolic pathways; and relationship to normal human development and clinical disease. Prereq: Completion of one year of college-level science courses. Lecture, one class meeting per week, one optional conference. Prereq CHE 107, CHE 236 and BIO 152 or equivalent.
BSC 766 CONCEPTS IN MEDICAL SOCIOLOGY. (3)
A review of social research methods and techniques that have been applied to the study of health and medicine; the contributions of medical sociology to general sociological theory and to concepts and research on health-related aspects of society. Prereq: Consent of instructor. (Same as SOC 766.)

BSC 770 PSYCHOSOCIAL ISSUES IN HEALTH AND AGING. (1-3)
This course will focus on psychosocial issues related to the physical health and functioning of older adults. Topic areas include: theories of aging, aging in society, age-related cognitive and emotional changes, social relationships, social status and communications, role transitions, and terminal illness. Prereq: Consent of instructor. (Same as PSY 770.)

BSC 772 TOPICAL SEMINAR IN MEDICAL BEHAVIORAL SCIENCE. (1-3)
Advanced study of selected topics in current importance in medical behavioral science. May be repeated to a maximum of six credits. Prereq: Consent of instructor. (Same as ANT 772.)

BSC 773 PSYCHOSOCIAL ONCOLOGY. (3)
This course will introduce the student to the field of psychosocial oncology. Health and illness are social phenomena. Understanding, predicting, and changing the role of the psychosocial sciences in health and illness and the role of the mental health professional in disease and illness care is encouraged. Understanding, predicting, and changing the role of the psychosocial sciences in health and illness and the role of the mental health professional in disease and illness care is encouraged. (Same as SOC 773.)

BSC 775 SEMINAR IN DEPENDENCY BEHAVIOR. (3)
The course is designed to explore theories of dependency behavior by examining the concept of dependency as it can be applied to the study of various phenomena including alcohol use and abuse, dependence on other psychoactive substances; institutional dependency; dependency in work settings, and poverty and welfare. Prereq: Consent of instructor. (Same as ANT/PSY/SOC 775.)

BSC 777 SEMINAR IN MENTAL ILLNESS CONCEPTS, BEHAVIORAL SCIENCE. (3)
Advanced study of contemporary concepts of mental health and mental illness, and their historical development; major forms of response to mental illness. Prereq: Consent of instructor. (Same as SOC 777.)

BSC 780 BEHAVIORAL FACTORS IN DEATH AND SURVIVORS. (3)
Behavioral concepts are examined which explain reactions of individuals, collectivities and social institutions to the phenomenon of death. Prereq: Consent of instructor. (Same as SOC 780.)

BSC 782 WOMEN’S HEALTH AND AGING. (3)
This class explores the issues related to health and well-being among older women. Students will examine the interrelationships between the multiple identities of women as they influence health care delivery. One credit per week, not to exceed six credits. Prereq: Consent of instructor. (Same as ANT 782.)

BSC 783 COMPARATIVE HEALTH CARE SYSTEMS. (3)
This seminar will examine research perspectives on health care systems in comparative perspective. It will deal with the following questions: (1) What are the core analytical dimensions of a health care system? (2) How do health care systems connect behavioral science knowledge and methodology to the understanding and treatment of cancer and the cancer patient will be examined. The role of psychosocial factors in the etiology, prevention, and treatment of cancer will be explored. Emphasis will be placed upon the interaction of biological, psychological, and social factors throughout the course of cancer. Prereq: Graduate standing.

BSC 774 FOOD AND FOOD SECURITY IN A CHANGING WORLD. (3)
This seminar will explore the biocultural interactions among food, human biology, and the social, cultural, political and economic forces that shape them. We will examine the historical and current nutritional status of populations. Topics include the social role of food; food beliefs and ideologies, the political economy of malnutrition, development, and food security and methods in nutritional anthropology. Readings and discussions are research focused and approach issues from a variety of theoretical perspectives. Prereq: ANT 601 or consent of instructor. (Same as ANT 774.)

BSC 850 ELECTIVE IN BEHAVIORAL SCIENCE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the College of Medicine and/or complements required course work in the second-year medical curriculum. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

DR Diagnostic Radiology

DR 850-899 FOURTH-YEAR ELECTIVE IN DIAGNOSTIC RADIOLOGY. (3)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee. Approved electives: BSC 850 ELECTIVE IN BEHAVIORAL SCIENCE

DR Diagnostic Radiology

DR 850-899 FOURTH-YEAR ELECTIVE IN MEDICAL RADIOLOGY. (1-6)
With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Emergency Medicine. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and approval of adviser. Approved electives: DR 850-899 FOURTH-YEAR ELECTIVE IN DIAGNOSTIC RADIOLOGY, DR 855 NUCLEAR MEDICINE, DR 856 PEDIATRIC RADIOLOGY, DR 890 OFF-SITE CLERKSHIP IN DIAGNOSTIC RADIOLOGY

ER Emergency Medicine

ER 825 SECOND-YEAR ELECTIVE, EMERGENCY MEDICINE. (1-4)
With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Emergency Medicine. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and approval of adviser. Approved electives: ER 825 FOURTH-YEAR ELECTIVE, ER 843 EMERGENCY MEDICINE

ER Emergency Medicine

ER 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee. Approved electives: ER 850-899 FOURTH-YEAR ELECTIVE IN EMERGENCY MEDICINE, ER 853 RESEARCH IN EMERGENCY MEDICINE, ER 890 EMERGENCY MEDICINE OFFSITE

FM Family and Community Medicine

FM 841 OFF-SITE PRECEPTORSHIP IN FAMILY MEDICINE. (1-4)
A senior selected in remote sites designated to acquire the student with the functions, techniques, and experiences associated with a family physician. Students interested in an off-campus based family physicians, will live in the community and practice primary health care delivery. One credit per week, not to exceed six weeks. Prereq: Approval to the fourth year, College of Medicine. Approved electives: FM 850 ACTING INTERN IN FAMILY MEDICINE, FM 852 INTERDISCIPLINARY APPROACH TO SPORTS MEDICINE, FM 853 INTERNATIONAL CLERKSHIP IN PRIMARY CARE, FM 855 SPIRITUAL AND PALLIATIVE CARE: A CONTINUUM OF CARING

FP Family Practice and Community Medicine

FP 825 SECOND-YEAR ELECTIVE, FAMILY MEDICINE. (1-4)
With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Family Practice. The intent is to provide the student an opportunity to explore specialized study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Approval to second-year medical curriculum and approval of adviser. Approved electives: FP 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS.

MC Medical Center

MC 500 INTRODUCTION TO SERVICE-LEARNING. (3)
This interdisciplinary primary care course introduces students to the theories, concepts, and practices of Service-Learning. Service-Learning is a form of experiential education which engages the student in active learning through volunteerism and commitment to the development of classroom learning to service. Prereq: Upper division status. (Same as EXP 500.)

MED Medicine

MED 516 BIOLOGY AND THERAPY OF CANCER. (3)
Biology of cancer will be discussed at the molecular, cellular and organismic level. Emphasis will be placed on cellular signaling, apoptosis and cell cycle unique to cancer cells, which affects tumor cell behavior and its interactions with the host immune system. The biology of hematopoietic cells will also be included. Clinicians active in treatment and research of various types of cancer will be invited to participate in the lectures. Prereq: BCH 501, 502, BIO 685. (Same as MMPH 616.)

MED 825 SECOND-YEAR ELECTIVE, MEDICINE. (1-6)
With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Approval to second-year medical curriculum and approval of adviser. Approved electives: MED 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS.

MED 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee. Approved electives: MED 850 CLINICAL ENDOCRINOLOGY AND METABOLISM, ADULT GASTRO-INTESTINAL DISEASE, UK AND VAH, MED 852 DERMATOLOGY SECTION I, MED 856 NERVOUS SYSTEM, BONE AND MINERAL METABOLISM, MED 857 PULMONARY MEDICINE, MED 893 CARDIOLOGY-LU AND ADULT GASTRO-INTESTINAL DISEASE, MED 860 INFECTIOUS DISEASES, MED 862 HISTOCYTOLGY-YAH, MED 863 SEARCH IN MEDICINE, MED 870 ACTING INTERN IN MEDICINE, MED 873 MEDICAL SPECIALTIES AND GENERAL MEDICINE AND MEDICAL SPECIALTIES, MED 874 STUDENT HEALTH SERVICE, MED 875 MEDS-PEDS AMBULATORY ELECTIVE, MED 876 HEMATOLOGY-ONCOLOGY, UK, MED 879 GENERAL MEDICAL CONSULTING SERVICE, MED 890 INTERNAL MEDICINE OFFSITE

MI Microbiology and Immunology

MI 494 IMMUNOLOGY. (3)
A survey of theories and mechanisms of immunity, including: nature of antigens and antibodies, antigen-antibody reactions, immunopathology, cellular immunity, allergic reactions, tumor immunology and transplantation immunology. Prereq: BCH 401G (may be taken concurrently) and BIO 208 or BIO 308 or consent of instructor. (Same as MATH 494.)
M1590 CELLULAR AND MOLECULAR PHYSIOLOGY. (4)
This introductory course will cover the molecular and cellular biology of inter-and intra-cellular communication. In particular, it will provide an overview of established and emerging intracellular signaling mechanisms. Topics to be covered include: A. second messenger (AMP, cGMP), B. calcium (phospholipid-dependent calcium). C. cyclic ADP ribose, C. intermembrane ion fluxes (volleys and receptor-operated channels) D. signal transduction (e.g. v) nuclear transcription factors. The material will be presented in a number of formats including didactic lectures, student presentations, small group discussions and laboratory experience.

M1592 CLINICAL MICROBIOLOGY. (3)
An introduction to the concepts of clinical microbiology through a survey of the microbial diseases of man using an organ system approach. Prereq: BI208 and 209, BI236/436/536, CH236 or 236, or consent of instructor. (Same as PAT 598.)

M1601 SPECIAL TOPICS IN MOLECULAR AND CELLULAR GENETICS. (1)
Each semester five distinguished scientists visit the UK campus to deliver a series of three formal lectures each and participate in numerous informal contacts with graduate students. The emphasis will be on the presentation of the most current advances (often unpublished) in selected topics in molecular and cellular genetics. May be repeated to a maximum of six credits. (Same as BCH/BIO/PPLS/PPA 601.)

M200 HISTORICAL GENETICS. (3)
An introductory molecular genetics course designed to expose first-year graduate students to contemporary concepts and methods in genetic analysis. Model systems and published papers will be presented as paradigms for important genetic principles. Prereq: CHE 105, 107, 230 and 232; BI 150 and 152; or equivalents. (Same as BI5 605.)

M211 BIOPHYSICS. (3)
The course will examine the mechanisms by which various biologi- cal, chemical, and physical agents injure susceptible hosts and the complex biochemical and immunological reactions which occur in response to injury. The host defense mechanisms will be illustrated by a discussion of human diseases and animal model systems with particular emphasis on the events at the molecular and cellular level. Prereq: BCH 502 or concurrent, BI5/BI5 494G or equivalent, or consent of instructor. (Same as BCH/BI5 615.)

M216 BIOLOGY AND THERAPY OF CANCER. (3)
Biological and chemotherapeutic agents injure susceptible hosts and the complex biochemical and immune reactions which occur in response to injury. The host defense mechanisms will be illustrated by a discussion of human diseases and animal model systems with particular emphasis on the events at the molecular and cellular level. Prereq: BCH 502 or concurrent, BI5/BI5 494G or equivalent, or consent of instructor. (Same as BCH/BI5 615.)

M216 MOLECULAR INCELLULAR BIOLOGY. (3)
The course will examine the mechanisms by which various biological, chemical, and physical agents injure susceptible hosts and the complex biochemical and immunological reactions which occur in response to injury. The host defense mechanisms will be illustrated by a discussion of human diseases and animal model systems with particular emphasis on the events at the molecular and cellular level. Prereq: BCH 502 or concurrent, BI5/BI5 494G or equivalent, or consent of instructor. (Same as BCH/BI5 615.)

M256 ADVANCED IMMUNOLOGY. (3)
An introductory level graduate course surveying current trends in immunology including the organization and structure of cells relevant to immune function, e.g. antigenic and enigmatic receptors, T cell receptors, B cell receptors, and cross-linking with the innate immune system. The biology of hematopoietic cells will also be included. Clinicians active in research and treatment of various types of inflammatory disease will be invited to participate in the lectures. Prereq: BCH5 202, 502, BI5 685. (Same as MED/HFA 616.)

M2610 NEUROSCIENCE. (3)
The course will examine the mechanisms by which various biological, chemical, and physical agents injure susceptible hosts and the complex biochemical and immunological reactions which occur in response to injury. The host defense mechanisms will be illustrated by a discussion of human diseases and animal model systems with particular emphasis on the events at the molecular and cellular level. Prereq: BCH 502 or concurrent, BI5/BI5 494G or equivalent, or consent of instructor. (Same as BCH/BI5 615.)

M265 NEUROCUTANEOUS DISORDERS. (3)
An introductory level graduate course surveying current trends in immunology including the organization and structure of cells relevant to immune function, e.g. antigenic and enigmatic receptors, T cell receptors, B cell receptors, and cross-linking with the innate immune system. The biology of hematopoietic cells will also be included. Clinicians active in research and treatment of various types of inflammatory disease will be invited to participate in the lectures. Prereq: BCH5 202, 502, BI5 685. (Same as MED/HFA 616.)

M604 EXPERIMENTAL GENETICS. (3)
The course provides basic concepts of immunology and of bacterial, viral, fungal and protozoal biology. It focuses on mechanisms of human immunity, immunologically mediated disease, and patho- genesis in infectious diseases. The material covered includes relevant pathogenesis associated with both immunologic and infectious diseases, and a brief summary of infectious diseases from the organ system perspective. Lecture, 20 hours per week. Prereq: Admission to second year of graduate school or equivalent. (Same as BCH/BIO/PLS/PPA 622.)

M6120 MECHANISMS OF INFEC TION. (1-4)
A course designed to expose first-year graduate students to contemporary concepts and methods in molecular and cellular genetics. Model systems and published papers will be presented as paradigms for important genetic principles. Prereq: CHE 105, 107, 230 and 232; BI 150 and 152; or equivalents. (Same as BI5 605.)

M622 IMMUNITY, INFeCTION, AND DISEASE. (9)
The course provides basic concepts of immunology and of bacterial, viral, fungal and protozoal biology. It focuses on mechanisms of human immunity, immunologically mediated disease, and patho- genesis in infectious diseases. The material covered includes relevant pathogenesis associated with both immunologic and infectious diseases, and a brief summary of infectious diseases from the clinical perspective. Lecture: 20 hours per week. Prereq: Admission to second year of graduate school or equivalent. (Same as BCH/BIO/PLS/PPA 622.)

M625 SECOND-YEAR ELECTIVE, MEDICAL MICROBIOLOGY AND IMMUNOLOGY. (1-4)
With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Medical Microbiology and Immunology. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second year of graduate school or equivalent. (Same as BCH/BIO/PLS/PPA 622.)

M622 IMMUNITY, INFECTION AND DISEASE FOR THE STUDENT DENTIST. (1)
The course provides basic concepts of immunology and of bacterial, viral, fungal and protozoal biology. It focuses on mechanisms of human immunity, immunologically mediated disease, and patho- genesis in infectious diseases. The material covered includes relevant pathogenesis associated with both immunologic and infectious diseases, and a brief summary of infectious diseases from the clinical perspective. Lecture: 20 hours per week. Prereq: Admission to the second-year student dentistry curriculum or permission of course director. (Same as OBI 828.)

M850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportu- nity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

M850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportu- nity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

M850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportu- nity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

M850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportu- nity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

M850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportu- nity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

M850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportu- nity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

M850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-6)
With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportu- nity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or permission of the Student Progress and Promotions Committee.
A critical evaluation at the advanced level of the literature of the major mammalian physiological systems at the organ, cellular and molecular level. The course will include both to a comprehensive PGY 502. It includes a critical reading of the primary literature. Prereg. One year each of physics, general chemistry; PGY 206 or equivalent.

PGY 603 DESIGN AND ANALYSIS. (3) This course focuses on skills necessary to critically evaluate the methodology of research and investigations of important issues in physiology. Participants will gain an understanding of the design problems which may or may not have serious design errors or inappropriate statistical inferences or invalid conclusions. Participants also will be provided with research methodologies for their research area. Prereg. Statistics course; consent of instructor.

PGY 604 ADVANCED CARDIOVASCULAR PHYSIOLOGY. (3) The objective of this course is to examine in-depth the various functions of the cardiovascular system and their proposed mechanisms. Prereg. PGY 420 or consent of instructor.

PGY 608 ADVANCED RENAL PHYSIOLOGY. (3) This course will examine in-depth the physiology and pathophysiology of the renal system. Students will have an understanding of the cellular renal physiology and their relationship problems in their research area. Prereg. Statistics course; consent of instructor.

PGY 611 ADVANCED NEUROPHYSIOLOGY. (3) A comprehensive physiology course examining the systems, cellular and molecular basis of cellular physiology. Prereg. Second year standing as a junior of BIS 609.

PGY 612 BIOLOGY OF AGING. (3) A multidisciplinary discussion of how the process of aging affects biological systems. Course will include topics such as subcellular and cellular aging, genetics, immunology, and anatomy and physiology, animal model of aging, etc. Prereg. Enrollment in a graduate program of a home institutional or consent of instructor. (Same as ANA/BIODRN 612.)

PGY 615 SEMINAR IN TEACHING MEDICAL SCIENCE (MED SCIENCE TEACHING). (2) A two (2) credit seminar course in which issues related to the theory and practice of life science education are discussed in a Socratic manner. May be repeated to a maximum of six credits. Prereg. Current enrollment in a life science graduate program. (Same as GRN 615.)

PGY 616 PRACTICUM IN TEACHING MEDICAL SCIENCE (MED SCIENCE TEACHING). (2) A two (2) credit experimental course in which students will directly participate in the teaching of physiology under supervised conditions. May be repeated to a maximum of six credits. Prereg. PGY 615 may be taken concurrently.

PGY 617 PHYSIOLOGICAL KINETICS. (3) The study of function by global analysis of gene expression. Teaches the concepts, techniques, and functional significance of analyzing gene-expression patterns. The technical emphasis is on the design and analysis of DNA microarray experiments. Examples of normal function or disease states in which gene expression profiling has had a significant impact are also taught. Prereg. BRS 601 and BRS 602 or equivalents. (Same as PHA 617.)

PGY 618 MOLECULAR NEUROBIOLOGY. (3) A course provides knowledge base and analytical skills in the field of molecular neurobiology. An in-depth introduction to current technologies, their rationale and limitations, will be the focus to address normal and abnormal neural conditions. Prereg. BCI 501, 502, NEU 605, or consent of instructor. (Same as ANA/BIODRN 618.)

PGY 627 PROSPECT IN PHYSIOLOGICAL PSYCHOLOGY. (3) An intensive examination of theories, methods of investigation, and current research in physiological psychology. Prereg. Graduate standing or consent of instructor. (Same as PSY 627.)

PGY 630 ADVANCED TOPICS IN PHYSIOLOGY. (3) (Contemporary topics in physiology. Course designed to utilize the special research interests of resident and visiting faculty. May be repeated to a maximum of six credits. Prereg. PGY 502 or consent of instructor.

PGY 638 DEVELOPMENTAL NEUROBIOLOGY. (3) An introduction to the principles and methods of research in the nervous system. Neurophysiological, cell biological and molecular approaches to cell differentiation, neurochemical patterns and systems development and diseased states. Examples will be drawn from both vertebrate and invertebrate preparations. Prereg. BRS 503 or consent of instructor. (Same as ANA/BIO/PH 638.)

PGY 650 ANIMAL PHYSIOLOGY LABORATORY. (3) Hands-on laboratory exercises in animal physiology. Prereg. Permission or concurrent enrollment in BIS 605. BIS 609.

PGY 660 BIOLOGY OF REPRODUCTION. (3) Advanced study of current topics in reproductive biology. The course is comprised equally of lecture and laboratory components which will be given by faculty with research expertise in selected topics. Readings will be taken from current and classic literature. Topics covered include (but are not limited to) molecular and cellular endocrinology, hormone receptors and mechanism of action, reproductive neuroendocrinology, reproductive behavior, gametogenesis, fertilization, sexual differentiation, sex hormones and an area which supplements morpho- terminal effects on reproduction. Emphasis will be placed on the analysis and understanding of these mechanisms. Prereg. Consent. Prereg. ASC/PGY 601 and ASC 364 or BIO PGY 502 or consent of instructor. (Same as ANA 660 and ASC 660.)

PGY 710 AGING OF THE NERVOUS SYSTEM. (3) This course will examine the alterations in the brain that occur with aging and in neurodegenerative disorders such as Alzheimer’s disease. The emphasis will be on human aging although the relevance to the study of animal models to be an integral part of the course. (Same as ANA/GRN/PH 710.)

PGY 748 MASTER’S THESIS RESEARCH. (0-12) Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereg. Registration for two full-time equivalent credits. (Same as ANA/GRN/PH 748.)

PGY 749 DISSERTATION RESEARCH. (0-12) Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereg. Registration for two full-time equivalent credits. (Same as ANA/GRN/PH 749.)

PGY 672 TOPICAL SEMINAR IN NEUROSCIENCE. (2) A study of selected topics in behavioral neuroscience with emphasis on recent research and theory. May be repeated to a maximum of 12 credits. Consent of student. This course may be elected to fulfill requirements in the psychology and physiology graduate programs. (Same as PSY 767.)

PGY 774 GRADUATE SEMINAR IN PHYSIOLOGY. (1) May be repeated to a maximum of 15 credits. Prereg. Consent of instructor.

PGY 813 NEUROPHYSIOLOGY. (3) The brain uses electrical signals to process all information it receives and analyzes. Individual neurons encode complex information into simple electrical signals; the meaning behind these signals is derived from the specific interconnections of neurons. The purpose of neurophysiology is to describe how the neural and chemical signals and illustrate how these signals are involved in the functional organization of neural circuits. This course also describes how central nervous system function is controlled by various inputs, elicits command decisions that determine the motor and/or endocrine responses. Lecture: three hours per week for five weeks. Prereg. Admission to the College of Dentistry, or consent of the Course Director. (Same as ORH 813.)

PGY 818 HUMAN FUNCTION. (3) This course provides an in-depth instruction on the physiological mechanisms of body function from the single cell to the organism level. The course is team taught by medical scientists and clinicians. Teaching methodology will include didactic and Socratic lectures, small group discussions, demonstrations and live model and computer simulated labs. Lecture: 20 hours, 20 laboratory hours. Prereg. PGY 818: Admission to medical school (first year). For OBI 818: Admission to the Dental School and OBI 812. (Same as MD/811/812.)

PGY 825 SECOND-YEAR ELECTIVE. (1-4) With the advice and approval of his or her faculty advisor, the second-year student may choose approved electives offered by the various departments in the College of Medicine. The purpose is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereg. Admission to second-year medical curriculum and approval of adviser.

PGY 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-4) With the advice and approval of the faculty advisor and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereg. Admission to second-year medical curriculum and approval of adviser.

PHA 522 SYSTEMS PHARMACOLOGY. (3) This course provides a framework of understanding the pharmacodynamic action of drugs most commonly used in medical practice. Prereg. PHA 521; consent of instructor.

PHA 522 QUANTITATIVE PHARMACODYNAMIC PHARMACOKINETICS. (3) Quantitative treatment of dynamics of drug absorption, distribution, metabolism, excretion, interaction and effects. Emphasis on mathematical models and model-independent approaches for describing these processes. Prereg. PHR 802 (or equivalent), MA 114 and consent of instructor. (Same as PHR 612.)
PHI 616 BIOLOGY AND THERAPY OF CANCER. (3) Biologically relevant tumors are focused at the molecular, cellular, and organismal level. Emphasis will be placed on cellular signaling, apoptosis and cell cycle unique to cancer cells, which affects tumor cell growth and tumor-host interactions. Examples of normal function or disease states in which gene expression profiling has a significant impact are also taught. Prereq: IBS 604 and IBS 602 or equivalents. (Same as MED/DM 616.)

PHI 617 PHARMACOGENETICS. (2) The molecular analysis of gene expression. Teaches the concepts, techniques, and functional significance of analyzing gene expression patterns. The technical emphasis is on the design and analysis of gene expression experiments. Examples of normal function or disease states in which gene expression profiling has a significant impact are also taught. Prereq: IBS 604 and IBS 602 or equivalent. (Same as PGIY 617.)

PHI 621 PRINCIPLES OF DRUG ACTION. (3) The objective of this course is to familiarize graduate students with the drug discovery process of drug design and development. Emphasis will be placed on both basic principles and the discovery and development of new anti-cancer drugs. Prereq: IBS 602 or consent of instructor.

PHI 622 MOLECULAR DRUG TARGETS AND THERAPEUTICS. (1-4) The course is designed to provide graduate students with state of the art information regarding drugs, drug action and chemotherapy. Emphasis will be placed on both basic principles and the discovery and development of new anti-cancer drugs. Prereq: IBS 602 or consent of instructor.


PHI 649 ADVANCED MOLECULAR PHARMACOLOGY. (4) This course provides a broad understanding of the molecular pharmacology of growth factors, transcription factors, receptors, and ion channels. Emphasis will be placed on both basic principles and the discovery and development of new anti-cancer drugs. Prereq: IBS 602 or consent of instructor. (Same as PHR/TOX 649.)

PHI 658 ADVANCED NEUROPHARMACOLOGY. (2) A discussion of the role of the modulation of drugs on the nervous tissue and a review of the effects of anesthetics, sedatives, hypnotics, anesthetics, tranquilizers, psychotomimetics, anesthetics, antipsychotics, analgesics, and drugs affecting motor dysfunction upon neurons, synapses and functional components of the central nervous system. Prereq: PHA 522, IBS 601-606, or consent of instructor.

PHI 670 CHEMICAL CARCINOGENESIS. (4) Lectures and discussion of the chemical and biochemical reactions of chemical carcinogens and their metabolites. Prereq: CHE 232; PHR 400; or BCH 501, 502. (Same as TOX 670.)

PHI 710 AGING OF THE NERVOUS SYSTEM. (3) This course will focus on the biology of the brain as it ages and in neurodegenerative disorders such as Alzheimer's disease. The emphasis will be on human aging although the relevance of animal models to studies of human aging will be a recurrent theme. The course will examine aging at several levels, including cellular, molecular, cellular, and behavioral. Prereq: GRN 620. A strong background in the basic sciences. (Same as ANA/GRN/PGY 710.)

PHI 748 MASTER'S THESIS RESEARCH. (0-3) Research leading to the master's degree may be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

PHI 749 RESEARCH AND PUBLICATION. (0-3) Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of credit following the successful completion of the qualifying examinations.

PHI 750 RESEARCH IN PHARMACOLOGY. (1-5) May be repeated to a maximum of six semesters. Prereq: as required.

PHI 767 DISSERTATION RESIDENCY CREDIT. (2) Residency credit for dissertation research following the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Full and Spring) until the dissertation is completed and defended.

PHI 768 RESIDENCE CREDIT FOR THE MASTER'S DEGREE. (1) May be repeated to a maximum of 12 hours. Prereq: Admission to and matriculation in the College of Medicine. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and permission of the Student Progress and Promotions Committee.

PHI 772 SEMINAR IN PHARMACOLOGY. (1) May be repeated indefinitely. Prereq: Consent of instructor.

PHI 779 MECHANISMS OF DRUG ACTION. (4) The course will introduce students to a fundamental understanding of the pharmacology and therapeutic uses of drugs commonly used by their patients in their practice. Prereq: OBI 812 and OBI 814. (Same as OBI 826.)

PHI 824 MECHANISMS OF DISEASE AND TREATMENT PHARMACOLOGY. (7) This course introduces the principal actions of substances which are used as drugs for treatment of diseases and suffering in humans. It will cover the general principles of drug action, how drugs alter the function of normal and pathological tissues and organisms and how they influence the course of diseases. Drugs used in the treatment of disease processes will be integrated with discussion of those diseases in PAT 823. Lecture, 20 hours per week. Prereq: Admission to second-year medical curriculum and permission of the Student Progress and Promotions Committee. (Same as MED 824.)

PM 622 SECOND-YEAR ELECTIVE, PHARMACOLOGY. (1-4) With the approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Pharmacology. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and permission of the Student Progress and Promotions Committee.

PM 680-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-3) With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his or her knowledge and clinical competence. Prereq: Admission to the fourth-year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

PM 748 MASTER'S THESIS RESEARCH. (0) Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

PM 790 CHRONIC DISEASE EPIDEMIOLOGY. (3) A seminar focusing on the leading U.S. chronic conditions: cardiovascular disease, cancer, and diabetes with focus on surveillance and risk factors. Prereq: Enrollment in a Public Health degree program. Lecture 60, SPH 605/SPH 605P. A written proposal to Epidemiology or consent of instructor. (Same as SPH 711.)

PM 825 SECOND-YEAR ELECTIVE, PREVENTIVE MEDICINE AND ENVIRONMENTAL HEALTH. (1-3) With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Preventive Medicine and Environmental Health. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and approval of advisor.

PM 841 PREVENTIVE MEDICINE CLERKSHIP SELECTIVE. (1-6) The medical student working singly or in small groups will, with Preventive Medicine faculty assistance, identify a question amenable to study. Building on the second-year experience, the project will involve identification of a question, design and conduct of the study, appropriate analysis of data, and a written and oral presentation. Prereq. Admission to College of Medicine.

PM 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS. (1-3) With the advice and approval of the faculty adviser and the Student Progress and Promotions Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his or her knowledge and clinical competence. Prereq. Admission to the fourth-year, College of Medicine and/or permission of the Student Progress and Promotions Committee. Approved electives: PM 680-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS.

PSC Psychiatry

PSC 625 SECOND-YEAR ELECTIVE, PSYCHIATRY. (4) With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Psychiatry. The intent is to provide the student an opportunity for exploration and study in an area which supplements and/or complements required course work in the second-year curriculum. Pass-fail only. Prereq: Admission to second-year medical curriculum and permission of the Student Progress and Promotions Committee.

PSC 680 MECHANISMS OF DISEASE AND TREATMENT/Psychiatry. (4) This course introduces the principal actions of substances which are used as drugs for treatment of diseases and suffering in humans. It will cover the general principles of drug action, how drugs alter the function of normal and pathological tissues and organisms and how they influence the course of diseases. Drugs used in the treatment of disease processes will be integrated with discussion of those diseases in PAT 823. Lecture, 20 hours per week. Prereq: Admission to second-year medical curriculum and permission of the Student Progress and Promotions Committee. (Same as MED 824.)

PSC 841 ADULT PSYCHIATRY ELECTIVE. (4) Adult psychiatry elective in Inpatient Psychiatry, Consultation-Liaison/Psychiatry, and Psychopharmacology. Prereq: Third-year Psychiatry Clerkship, MD 833.

PSC 842 CHILD AND ADOLESCENT PSYCHIATRY ELECTIVE. (4) Psychiatric elective for fourth-year medical students offering a combined experience in inpatient, outpatient, consultation/liaison and adolescent psychiatry. Prereq: MD 833 or equivalent.

PSC 845 FORENSIC MEDICAL ELECTIVE. (4) See also Criminal Justice. The student will practice these skills through focused critiques of the medical literature on criminal justice topics. Students will be provided the student an opportunity to develop his or her knowledge and clinical competence. Prereq. Admission to the fourth-year, College of Medicine and/or permission of the Student Progress and Promotions Committee. Approved electives: PSC 890 OFF-SITE CLINICAL PRACTICUMS.
RM Radiation Medicine

RM 472G INTERACTION OF RADIATION WITH MATTER. (3) Basic aspects of the interaction of ionizing radiation with matter. Both atomic, atomic spectra, radiactivities, energies of decay. Sources of radiation, penetration of charged particles, electromagnetic radiation, and neutrons through matter; excitation and ionization processes; selected nuclear reactions: basic radiation detection and dosimetry. Prerequisite: PHY 213 or 232; MA 114 (may be taken concurrently); or equivalent. (Same as PHY 472G.)

RM 545 RADIA TION HAZARDS AND PROTECTION. (3) An analysis of common radiation hazards encountered in medicine, research, industry, and the environment. Regulations and procedures for the safe use of ionizing and non-ionizing radiations. Lecture: two hours; laboratory, two and one-half hours. Prerequisite: PHY/RM 472G or consent of instructor. (Same as PHY/RM 545.)

RM 546 GENERAL MEDICAL RADIOL O GICAL PHYSICS. (3) The uses and dosimetric aspects of radiation in medicine will be analyzed, including many basic applications in the fields of diagnostic radiology physics, therapy physics, and nuclear medical physics. Prerequisite or concur: RM/RM 472G or consent of instructor. (Same as PHY/RM 546.)

RM 601 ADVANCED RADIATION DOSIMETRY. (2) Advanced aspects of the interaction of radiation with matter and specialized topics in the dosimetry of ionizing radiations. Modifications of Bragg-Gray theory for application to megavoltage sources. Beta dosimetry. Specialized calibration techniques. Relative response functions of various media. Nontraditional techniques. Doseimetry of radiation fields including complex spectra. Prerequisite: PHY 472G, RM 546, or equivalent. (Same as RAS 601.)

RM 647 PHYSICS OF DIAGNOSTIC IMAGING I. (3) Specialized and advanced topics in diagnostic imaging, including modulation transfer function analysis, image processing algorithms, acceptance testing, CT, NMR, ultrasound, etc. Prerequisite: PHY/RM/RAS 546 or consent of instructor. (Same as RAS 647.)

RM 648 PHYSICS OF DIAGNOSTIC IMAGING II. (3) A continuation of RAS/RM 647. Specialized and advanced topics in nuclear medicine imaging physics, including positron emission tomography procedures, emerging new modalities, and quality control. Prerequisite: RM/RM/RAS 647 or consent of instructor. (Same as RAS 648.)

RM 649 PHYSICS OF RADIATION THERAPY I. (2) Applied field work at the graduate level in the sciences relating to radiation medicine. May be repeated to a maximum of six credits. Prerequisite: Graduate standing in the biologic radiation sciences, plus consent of instructor.

RM 650 PHYSICS OF RADIATION THERAPY II: BRACHYTHERAPY PHYSICS. (2) A presentation of the full scope of use of implanted radiation sources for medical purposes. The course includes consideration of all aspects of brachytherapy dosimetry and treatment planning as well as modern and cutting-edge brachytherapy clinical practice. Characteristics of interstitial, intracavitary, and intraluminal implants, as well as remote afterloaders, are considered. Prerequisites: RAS/RM/PHY 546; RM/RM 472G; RM/RM 649 (may be co-requisite). (Same as RAS 650.)

RM 660 GRADUATE PRACTICUM IN RADIATION MEDICINE. (1-6) Applied field work at the graduate level in the sciences relating to radiation medicine. May be repeated to a maximum of six credits. Prerequisite: Consent of instructor.

RM 695 RESEARCH IN THE HEALTH-RELATED RADIATION SCIENCES. (1-6) Independent directed research on theoretical and practical problems in the health-related radiation sciences. May be repeated to a maximum of eight credits. Prerequisites: Graduate standing in one of the radiation-related sciences, plus consent of instructor. (Same as RAS 695.)

RM 740 MAMMALIAN RADIATION BIOLOGY. (2) The physical and biological sequelae of radiation effects will be discussed emphasizing human and mammalian responses and radiation health. Emphasis will be for health and medical workers. Prerequisites: Consent of instructor; BI/BI/RM 540 or RM 545 or equivalent background. (Same as BI 740.)

RM 825 SECOND-YEAR ELECTIVE, RADIATION MEDICINE. (1-4) With the advice and approval of his or her faculty adviser, the second-year student may choose approved electives offered by the Department of Radiation Medicine. The intent is to provide the student an opportunity to develop his fund of knowledge and clinical competence. Prerequisites: Admission to the second year, College of Medicine and/or permission of the Student Progress and Promotions Committee.

RM 835 ACTING INTERNSHIP IN ORTHOPEDIC SURGERY. (2) A presentation of the full scope of use of implanted radiation sources for medical purposes. The course includes consideration of all aspects of brachytherapy dosimetry and treatment planning as well as modern and cutting-edge brachytherapy clinical practice. Characteristics of interstitial, intracavitary, and intraluminal implants, as well as remote afterloaders, are considered. Prerequisites: RAS/RM/PHY 546; RM/RM 472G; RM/RM 649 (may be co-requisite). (Same as RAS 650.)
PLANT PATHOLOGY

David A. Smith, chair
Mark L. Farman, associate professor, Ph.D., East Anglia, 1990
Said A. Ghabrial, professor, Ph.D., Louisiana State, 1965
Michael M. Goodin, assistant professor, Ph.D., Penn State, 1996
John R. Hartman, extension professor emeritus, Ph.D., Wisconsin, 1971
James W. Hendrix, professor emeritus, Ph.D., North Carolina State, 1963
Donald E. Hershman, extension professor, Ph.D., Rutgers, 1983
Aarla Kachroo, assistant professor, Ph.D., Maharaja Sayajirao University of Baroda, 1999
Pradeep Kachroo, assistant professor, Ph.D., Maharaja Sayajirao University of Baroda, 1995
Joseph A. Kuc ’, professor emeritus, Ph.D., Purdue, 1953
Peter D. Nagy, professor, Ph.D., Keszthely, 1990
William C. Nesmith, extension professor emeritus, Ph.D., North Carolina State, 1977
Thomas P. Pirone, professor emeritus, Ph.D., Wisconsin, 1960
Christopher L. Scharff, professor, Ph.D., California-Davis, 1983
Kenneth W. Seebold, Jr., assistant extension professor, Ph.D., Florida, 1998
Louis Sain, professor emeritus, Ph.D., North Carolina State, 1967
John G. Shaw, professor emeritus, Ph.D., Wisconsin, 1960
Shuh J. Sheen, professor emeritus, Ph.D., Minnesota, 1962
Robert J. Shepherd, professor emeritus, Ph.D., Wisconsin, 1959
Malcolm R. Siegel, professor emeritus, Ph.D., Maryland, 1962
David A. Smith, professor, Ph.D., Cornell, 1974
Lisa J. Vaillancourt, associate professor, Ph.D., Purdue, 1991
Paul Vincelli, extension professor, Ph.D., Cornell, 1988
Walter J. Walla, extension professor emeritus, Ph.D., Texas A&M, 1971

VETERINARY SCIENCE

Peter J. Timoney, chair
George P. Allen, professor, Ph.D., Kentucky, 1975
Sergey C. Artiushin, assistant research professor, Ph.D., Moscow State, 1981
Ernest F. Bailey, professor, Ph.D., California-Davis, 1980
Udemi Balasuriya, associate professor, Ph.D., California-Davis, 1996
David C. Bolin, associate clinical professor, Ph.D., Purdue, 1988
Unaeda Bryant, assistant professor, D.V.M., Tuskegee Institute, 2002
Thomas M. Chambers, associate professor, Ph.D., Notre Dame, 1982
R. Frank Cook, assistant research professor, Ph.D., Warwick, 1980
Ernest G. Cothran, research professor emeritus, Ph.D., Oklahoma, 1982
Ward W. Crowe, professor emeritus, D.V.M., Auburn, 1957
James M. Donahue, clinical professor, Ph.D., Missouri, 1971
Robert M. Dwyer, professor, D.V.M., Iowa State, 1985
Barry P. Fitzgerald, associate professor, Ph.D., Reading, England, 1979
Ralph C. Giles, Jr., clinical professor, D.V.M., Auburn, 1970
Kathryn T. Graves, assistant research professor, Ph.D., Cornell, 1985
Grace Hale, associate professor librarian II, M.S., Kentucky, 1990
Lenn R. Harrison, clinical professor, V.M.D., Pennsylvania, 1967
C. B. Hong, clinical professor, B.V.Sc., National Taiwan University, 1965; Ph.D., Cornell, 1972
David W. Horohov, professor, Ph.D., Tennessee, 1985
Daniel K. Howe, associate professor, Ph.D., Purdue, 1992
Charles J. Issel, professor, D.V.M., California, Davis, 1969; Ph.D., Wisconsin-Madison, 1973
Carney B. Jackson, associate professor, D.V.M., Oklahoma State, 1977
Teri L. Lear, research associate professor, Ph.D., Kentucky, 1997
Robert G. Loy, professor emeritus, Ph.D., Wisconsin, 1959
Eugene T. Lyons, professor, Ph.D., Colorado State, 1963
James N. MacLeod, professor, Ph.D., Pennsylvania, 1990
William H. McCollum, professor emeritus, Ph.D., Wisconsin, 1954
Karen J. McDowell, associate professor, Ph.D., Florida, 1986
E. Duane Miksch, extension professor emeritus, D.V.M., Kansas State, 1957
K. B. Poonacha, clinical professor, D.V.M., Madras University, India, 1963; Ph.D., Wisconsin, 1972
James R. Rooney, professor emeritus, D.V.M., Cornell, 1952
Patricia B. Scharko, associate extension professor, D.V.M., Georgia, 1983
Thomas S. Swereczek, professor, D.V.M., Kansas State, 1964; Ph.D., Connecticut, 1969
John F. Timoney, professor, M.V.B., National University of Ireland, 1965; D.Sc., National University of Ireland, 1983; Ph.D., National University of Ireland, 1969
Peter J. Timoney, professor, M.V.B., National University of Ireland (UCD), 1964; Ph.D., University of Dublin (Trinity College), Ireland, 1974; FRCVS, Royal College of Veterinary Surgeons, London, 1978
Thomas Tobin, professor, M.V.B., University College Dublin, Ireland, 1964; Ph.D., Toronto, Canada, 1970
Mary Lynne Vickers, associate clinical professor, Ph.D., Wisconsin, 1981
Neil M. Williams, clinical professor, D.V.M., Mississippi State, 1982; Ph.D., Kentucky, 1992
CHEMISTRY

William A. Thomas, professor, Ph.D., Virginia Polytechnic Institute, 1960
John Thrallkill, professor emeritus, Ph.D., Princeton, 1965
Zhenming Wang,* assistant professor, Ph.D., Kentucky, 1998
Gerald A. Weisenfluh,* assistant professor, Ph.D., South Carolina, 1982
Edward W. Woolery, associate professor, Ph.D., Kentucky, 1998

*adjunct appointment
**joint appointment

ENGLISH

Ellen B. Rosenman, chair
Jonathan Allison, associate professor, Ph.D., Michigan, 1988
Richard G. Alvey, associate professor emeritus, Ph.D., Pennsylvania, 1974
Edward Barrett, assistant professor, Ph.D., Texas-Austin, 1999
Thomas O. Blues, associate professor emeritus, Ph.D., Iowa, 1966
Virginia L. Blum, professor, Ph.D., Brown, 1989
Joan H. Blythe, associate professor emerita, Ph.D., North Carolina, 1971
Susan Bordo, professor, Ph.D., SUNY at Stony Brook, 1982
Anna R. K. Bosch, associate professor, Ph.D., University of Chicago, 1991
William R. Campbell, associate professor emeritus, Ph.D., Oregon, 1967
John G. Cawelti, professor emeritus, Ph.D., Iowa, 1960
Thomas Clayton, professor, Ph.D., Pittsburgh, 1995
John L. E. Clibbe, professor emeritus, Ph.D., Columbia, 1965
Jeffory A. Clymer, associate professor, Ph.D., Duke, 1998
Alfred L. Crab, Jr., associate professor emeritus, M.S., Peabody, 1941
Oscar Ronald Dathorne, professor emeritus, Ph.D., Sheffield, 1966
Andrew V. Doolen, associate professor, Ph.D., Arizona, 2001
David S. Durant, associate professor emeritus, Ph.D., North Carolina, 1971
Kim Edwards, associate professor, M.F.A., Iowa, 1983
Janet Carey Eldred, professor, Ph.D., Illinois, 1988
Lee A. Eliosef, associate professor emeritus, Ph.D., New York, 1960
Robert E. Evans, professor emeritus, Ph.D., Florida, 1954
Nikky Finney, professor, B.A., Talladega, 1979
Walter C. Foreman, associate professor, Ph.D., Washington, 1974
Joseph H. Gardner, professor emeritus, Ph.D., California, Berkeley, 1969
Matthew Giancarlo, assistant professor, Yale, 1998
William A. Gordon, associate professor emeritus, Ph.D., Tulane, 1963
John L. Greenway, associate professor emeritus, Ph.D., Wisconsin, 1969
James Baker Hall, professor emeritus, Ph.D., Stanford, 1961
H. Joan Hartwig, professor emerita, Ph.D., Washington, 1967
Andrew Hipppisley, professor emeritus, Surrey, 1997
Pearl James, assistant professor, Ph.D., Yale, 2002
Peter Killiney, assistant professor, Ph.D., Michigan, 2001
Connie Kendall, assistant professor, Ph.D., Miami-Ohio, 2005
Kevin S. Kiernan, professor emeritus, Ph.D., Case-Western Reserve, 1970
Jennifer Levinin, assistant professor, Ph.D., Yale, 2001
Joyce G. MacDonald, associate professor, Ph.D., Harvard, 1989
Jerome T. Teckman, professor emeritus, Ph.D., Harvard, 1968
Alan Nadel, professor, Ph.D., Rutgers, 1981
Gurney Norman, associate professor, A.B., Kentucky, 1959
Jean G. Pivat, associate professor emerita, M.A., Kentucky, 1962
Armando Prats, professor emeritus, Ph.D., Harvard, 1954
Randall Keith Roorda, associate professor, Ph.D., Michigan, 1994
Ellen B. Rosenman, professor, Ph.D., Virginia, 1983
Marion Rust, assistant professor, Ph.D., Stanford, 1997
Jennifer Lee Schoenfeld, assistant professor, Ph.D., Duke, 2005
John T. Shawcross, professor emeritus, Ph.D., New York, 1958
Gregory T. Stump, professor, Ph.D., Ohio State, 1981
Larry J. Swing, professor, Wessor emeritus, M.A., Wisconsin, 1967
Michael A. Tease, associate professor, Ph.D., Johns Hopkins, 1998
Jane G. Vance, professor, Ph.D., North Carolina, 1975
Arthur Wrobel, associate professor emeritus, Ph.D., North Carolina, 1968
Lisa Zunshine, associate professor, Ph.D., California-Santa Barbara, 2000

EARTH AND ENVIRONMENTAL SCIENCES

William A. Thomas, chair
Richard Irven Barnhisel,*** professor, Ph.D., Virginia Polytechnic Institute, 1964
Lois J. Campbell, associate professor emerita, Ph.D., Ohio State, 1955
Donald R. Chesnut, Jr.*, assistant professor, Ph.D., Kentuck, 1988
James C. Cobb,* assistant professor, Ph.D., Illinois, 1981
William H. Dennen, professor emeritus, Ph.D., Massachusetts Institute of Technology, 1949
James S. Dinger,* assistant professor, Ph.D., Nevada, Reno, 1977
James A. Drahozal,* associate professor, Ph.D., Iowa, 1966
Cortland F. Eble,* assistant professor, Ph.D., West Virginia, 1988
Frank R. Ettenson, professor, Ph.D., Illinois, 1975
Irvin S. Fisher, associate professor emeritus, Ph.D., Harvard, 1952
Alan E. Fryar, assistant professor, Ph.D., Albertina, 1992
Uschi M. Graham,* assistant professor, Ph.D., Pennsylvania State, 1993
Stephen F. Greb,* assistant professor, Ph.D., Kentuck, 1992
Chris Groves,* assistant professor, Ph.D., Virginia, 1993
Michael J. Handke, lecturer, Ph.D., Washington University, 2001
James C. Hower,* professor, Ph.D., Pennsylvania State, 1978
John O. Kiefer,* assistant professor, Ph.D., Illinois, 1970
William C. MacQuown, professor emeritus, Ph.D., Cornell, 1943
David P. Meeker, associate professor, Ph.D., Michigan, 1988
Bruce Robert Moore, associate professor emeritus, Ph.D., Melbourne, Australia, 1967
Kieran O’Hara, associate professor, Ph.D., Brown University, 1984
Dhananjay Ravat, professor, Ph.D., Purdue, 1989
Susan M. Rimmer, associate professor, Ph.D., Pennsylvania State, 1985
Thomas L. Robb,* assistant professor, Ph.D., Kentuck, 1977
Harold D. Rowe, assistant professor, Ph.D., Stanford, 2001
Lyle V. A. Sendlein,** professor emeritus, Ph.D., Iowa State, 1964
Ronald L. Street, associate professor emeritus, Ph.D., St. Louis University, 1975
**HISPANIC STUDIES**

Ana Rueda, chair

John J. Allen, professor emeritus, Ph.D., Wisconsin, 1960

Anibal A. Bigliieri, professor, Ph.D., Syracuse, 1982

Alan V. Brown, assistant professor, Ph.D., Arizona, 2006

Susan de Carvalho-Chumney, associate professor, Ph.D., Virginia, 1989

Brian J. Dendle, professor emeritus, Ph.D., Princeton, 1986

Michael Impey, professor emeritus, Ph.D., Michigan, 1970

Joseph R. Jones, professor emeritus, Ph.D., Wisconsin, 1962

Margaret E. W. Jones, professor emerita, Ph.D., Wisconsin, 1963

John E. Keller, professor emeritus, Ph.D., North Carolina, 1946

Susan Larson, assistant professor, Ph.D., Arizona, 1999

John Lihani, professor emeritus, Ph.D., Colorado, 1954

Yanira Paz, associate professor, Ph.D., Kentucky, 2000

Daniel R. Reedy, professor emeritus, Ph.D., Illinois, 1962

Ana Rueda, professor, Ph.D., Vanderbilt, 1985

Enrico Mario Santí, professor, Ph.D., Yale, 1976

Edward F. Stanton, professor, Ph.D., UCLA, 1972

Juana Suárez, assistant professor, Ph.D., Arizona State, 2000

Haralambos Symeonidis, assistant professor, Ph.D., University of Münster, 1998

**HISTORY**

Daniel B. Smith, chair

James C. Albisetti,* professor, Ph.D., Yale, 1976

Emily S. Burrill, assistant professor, Ph.D., Stanford, 2007

Jane E. Calvert, assistant professor, Ph.D., Chicago, 2003

Tracy Campbell, professor, Ph.D., Duke, 1988

Francie R. Chassen-Lopez, professor, Ph.D., Universidad Nacional de Mexico, 1986

Eric H. Christianson, associate professor, Ph.D., Southern California, 1976

Patricia A. Cooper,* associate professor, Ph.D., Maryland, 1981

Bruce S. Eastwood, professor, Ph.D., Wisconsin-Madison, 1963

Ronald D. Eller, associate professor, Ph.D., North Carolina-Chapel Hill, 1979

Abigail A. Firey,* associate professor, Ph.D., Arizona State, 1995

Ronald P. Formisano, Bryan professor, Ph.D., Wayne State, 1966

William W. Freehling, Singletary professor emeritus, Ph.D., Berkeley, 1963

Ellen Furlough, associate professor, Ph.D., Brown, 1987

Daniel J. Gargola, associate professor, Ph.D., North Carolina-Chapel Hill, 1988

David E. Hamilton, associate professor, Ph.D., Iowa, 1984

Philip R. Harling, professor, Ph.D., Princeton, 1992

George C. Herring, Alumni professor emeritus, Ph.D., Virginia, 1965

David G. Hunter, Cothurst-Rolfes Chair, Ph.D., Notre Dame, 1986

Robert M. Ireland, professor, Ph.D., Nebraska, 1967

Kathi L. Kern, associate professor, Ph.D., Pennsylvania, 1989

Joanne Melish, associate professor, Ph.D., Brown, 1996

Erik Lars Myrup, assistant professor, Ph.D., Yale, 2006

Lein-Hang Nguyen, assistant professor, Ph.D., Yale, 2006

Robert W. Olson, professor, Ph.D., Indiana, 1972

David M. Osler, professor, Ph.D., Chicago, 1985

Karen Petrone, associate professor, Ph.D., Michigan, 1994

Jeremy D. Popkin, professor, Ph.D., California-Berkeley, 1977

Daniel B. Rowland, associate professor, Ph.D., Yale, 1976

Daniel B. Smith, professor, Ph.D., Virginia, 1977

Gerald L. Smith, associate professor, Ph.D., Kentucky, 1989

Kristin E. Stapleton, associate professor, Ph.D., Harvard, 1993

Gretchen D. Sturr-LeBeau, associate professor, Ph.D., Michigan, 1996

Mark W. Summers, professor, Ph.D., California-Berkeley, 1980

Fay A. Yarbrough, assistant professor, Ph.D., Emory, 2003

*Joint appointment

**LATIN AMERICAN STUDIES**

Francie R. Chassen-Lopez, acting director

Marco A. Castaneda, Department of Economics

Francie R. Chassen-Lopez, Department of History

Susan Carvalho Chumney, Department of Hispanic Studies

Charles L. Davis, Department of Political Science

Oliver Fröhling, Department of Geography

Noemí Lugo, School of Music

Sarah Lyons, Department of Anthropology

David Moore, College of Law

Ted Murtaugh, Department of Geography

Yanira Paz, Department of Hispanic Studies

Christopher A. Pool, Department of Anthropology

Susan Roberts, Department of Geography

Enrico Mario Santí, Department of Hispanic Studies

Lee Walker, Department of Political Science

David H. Wise, Department of Entomology

**LINGUISTICS**

Anna Bosch, director

Steering Committee

Anna Bosch, Department of English

Thomas Clayton, Department of English

Sanford Goldberg, Department of Philosophy

Mark Laversdorf, Department of Modern and Classical Languages, Literatures and Cultures

Yanira Paz, Department of Hispanic Studies

Jeanmarie Rhouwer-Willoughby, Department of Modern and Classical Languages, Literatures and Cultures

Gregory T. Stump, Department of English

Sadia Zoubir-Shaw, Department of Modern and Classical Languages, Literatures and Cultures

**Affiliated Faculty**

Liga Abolins, Director, Center for English as a Second Language

Gloria Allaire, Department of Modern and Classical Languages, Literatures and Cultures (College of Arts & Sciences)

Ramesh Bhatt, Department of Psychology (College of Arts & Sciences)

Lee Blonder, Department of Behavioral Science (College of Medicine)

Jodelle Deen, Department of Communication Disorders (College of Health Sciences)

Alan DeSantis, Department of Communication (College of Communication & Information Studies)

Brian Gold, Department of Anatomy and Neurobiology (College of Medicine)

Jonathan Golding, Department of Psychology (College of Arts & Sciences)

Lori Gonzalez, Department of Communication Disorders (College of Health Sciences)

Dien Ho, Department of Philosophy (College of Arts & Sciences)

Harald Hoenbusch, Department of Modern and Classical Languages, Literatures and Cultures (College of Arts & Sciences)

Jane Joseph, Department of Anatomy and Neurobiology (College of Medicine)

Kevin Kierman, Department of English (College of Arts & Sciences)

Joachim Knuf, Department of Communication (College of Communications & Information Studies)

Elizabeth Lorch, Department of Psychology (College of Arts & Sciences)

Robert Lorch, Department of Psychology (College of Arts & Sciences)

Victor Marek, Department of Computer Science (College of Engineering)

Robert Marshall, Department of Communication Disorders (College of Health Sciences)

Judy Page, Department of Communication Disorders (College of Health Sciences)

Cynthia Ruder, Department of Modern and Classical Languages, Literatures and Cultures (College of Arts & Sciences)

Enid Waldhart, Department of Communication (College of Communication & Information Studies)

Linda Worley, Department of Modern and Classical Languages, Literatures and Cultures (College of Arts & Sciences)
MATHEMATICS
Zhongwei Shen, chair

David R. Adams, professor, Ph.D., Minnesota, 1969
Marian F. Anton, assistant professor, Ph.D., Notre Dame, 1998
James C. Beideman, professor, Ph.D., Penn State, 1964
Benjamin J. Braun, assistant professor, Ph.D., Washington University-St. Louis, 2007
James E. Brennan, professor, Ph.D., Brown, 1968
Russell Brown, professor, Ph.D., Minnesota, 1987
J. D. Buckholz, professor emeritus, Ph.D., Texas, 1960
Richard W. Carey, professor, Ph.D., SUNY-Stony Brook, 1970
Thomas A. Chapman, professor, Ph.D., Louisiana State, 1970
Donald B. Coleman, professor emeritus, Ph.D., Purdue, 1961
Alberto Corso, associate professor, Ph.D., Rutgers, 1995
Raymond H. Cox, associate professor emeritus, Ph.D., North Carolina, 1963
Alan Demlow, assistant professor, Ph.D., Cornell, 2002
Paul M. Eakin, Jr., professor, Ph.D., Louisiana State, 1968
Carl Eberhart, professor, Ph.D., Louisiana State, 1966
Richard Ehrenborg, professor, Ph.D., MIT, 1993
Edgar Enochs, professor, Ph.D., Notre Dame, 1958
Michael Freeman, professor emeritus, Ph.D., California-Berkeley, 1965
Brauch Fugate, professor, Ph.D., Iowa, 1964
Ronald Garepy, professor emeritus, Ph.D., Wayne State, 1969
Heide Gluesing-Luerssen, assistant professor, Ph.D., University of Oldenburg, Germany, 2000
Lawrence A. Harris, professor, Ph.D., Cornell, 1969
Thomas L. Hayden, professor, Ph.D., Texas, 1961
Peter D. Hislop, professor, Ph.D., California-Berkeley, 1984
Henry C. Howard, professor emeritus, Ph.D., Carnegie-Mellon, 1958
Michel E. Jabbour, associate professor, Ph.D., Cal Tech, 1999
David C. Johnson, professor emeritus, Ph.D., Virginia, 1970
Sing Ha Kang, assistant professor, Ph.D., California, 2002
Kenneth K. Kubota, professor, Ph.D., Facultes des Sciences de Paris, France, 1969
Carl Lee, professor, Ph.D., Cornell, 1981
David Leep, professor, Ph.D., Michigan, 1980
John Lewis, professor, Ph.D., Illinois, 1970
John E. Mack, professor emeritus, Ph.D., Purdue, 1959
Chi-Sing Man, professor, Ph.D., Johns Hopkins, 1980
James M. McDonough,* professor, Ph.D., UCLA, 1980
Richard Millman, professor, Ph.D., Cornell, 1971
Robert Molzon, associate professor, Ph.D., Johns Hopkins, 1977
Uwe R. Nagel, associate professor, Ph.D., University of Paderborn, 1990
Serge Ochanine, associate professor, Ph.D., Université de Paris-Sud (Orsay), France, 1978
Peter Perry, professor, Ph.D., Princeton, 1981
Margaret A. Readdy, associate professor, Ph.D., Michigan State, 1993
Raymond Rishel, professor emeritus, Ph.D., Wisconsin, 1959
Avinash Sathe, professor, Ph.D., Purdue, 1973
Zhongwei Shen, professor, Ph.D., University of Chicago, 1989
Ted J. Suffridge, professor, Ph.D., Kansas, 1965
Cliff Swauger, Jr., adjunct assistant professor, M.S., Kentucky, 1962
Chris Vancil, administrative officer, M.A., Murray State, 1974
Changyou Wang, professor, Ph.D., Rice, 1996
James H. Wells, professor emeritus, Ph.D., Texas, 1958
Qiang Ye, professor, Ph.D., Calgary, 1989

*Military Science (Army ROTC)

Lieutenant Colonel Anthony G. Dotson, chair

Core Faculty
Major Bradley D. Harrington, assistant professor, M.S., Southwest Missouri State, 2001
Master Sergeant Keith E. Hudson, senior military instructor
Captain Jonathan R. Kovach, assistant professor, M.A., Webster, 2005
Major Todd M. Lindner, assistant professor, B.S., Eastern Kentucky, 1996
Captain Michael L. Rush, assistant professor, B.A., Virginia Polytechnic Institute and State University, 1998
Sergeant First Class Patrick D. Stoker, M.A., Webster, 2004

Augmentation Faculty
Major Chester A. Back, assistant professor, B.A., Kentucky, 1991
Major Roger F. Deon, assistant professor, M.B.A., Phoenix, 2007
Major Gregory S. Roush, assistant professor, M.A., Eastern Kentucky, 1998
Sergeant First Class Philip Roy, military instructor

MODERN AND CLASSICAL LANGUAGES, LITERATURES AND CULTURES
Theodore Fiedler, chair

Division of Classics
James A. Francis, division director

James A. Francis, associate professor, Ph.D., Duke, 1991
David G. Hunter, professor and coach, Rollins College Chair of Catholic Studies, Ph.D., Notre Dame, 1986
Hubert M. Martin, Jr., professor, Ph.D., Johns Hopkins, 1958
Milena Y. Minkova, associate professor, Ph.D., Pontifical Salesian, 1995
Jane E. Phillips, professor, Ph.D., North Carolina-Chapel Hill, 1969
Robert J. Rabel, professor, Ph.D., Michigan, 1975
A. Ross Scaife, professor, Ph.D., Texas-Austin, 1990
Louis J. Swift, professor emeritus, Ph.D., Johns Hopkins, 1963
Terence O. Tunkberg, associate professor, Ph.D., Toronto, 1986

Division of French and Italian
Jeffrey N. Peters, division director

Gloria Allaire, lecturer, Ph.D., Wisconsin-Madison, 1992
Daniel Desormeaux, associate professor, Ph.D., Emory, 1993
Stacy H. Durbravac, associate professor, Ph.D., Penn State, 1999
Phillip A. Duncan, professor emeritus, Ph.D., Indiana, 1958
John D. Erickson, professor, Ph.D., Minnesota, 1964
Miriam Hostetter, lecturer, M.A., Kentucky, 1997
Raymond C. La Charité, professor emeritus, Ph.D., Pennsylvania, 1966
Virginia A. La Charité, professor emerita, Ph.D., Pennsylvania, 1966
Lindsay Myers, lecturer, Ph.D., Texas-Austin, 2007
Jeffrey N. Peters, associate professor, Ph.D., Michigan, 1996
Rupert T. Pickens, professor, Ph.D., North Carolina, 1966
Suzanne R. Pucci, professor, Ph.D., Syracuse, 1980
John A. Rea, associate professor emeritus, A.B., Miami, 1948
Jeorg Ellen Sauer, lecturer, M.A., Kentucky, 2001
Sadia Zoubir-Shaw, associate professor, Doctorate, Université de Providence, 1988

Division of German Studies
Harald Hoebusch, division director

Jeaninne Blackwell, professor, Ph.D., Indiana, 1982
Kristy Boney, lecturer, Ph.D., Ohio State, 2006
Theodore Fiedler, professor, Ph.D., Washington University, 1969
Hillary Hope Herzog, assistant professor, Ph.D., Chicago, 2001
Harald Hoebusch, associate professor, Ph.D., California-Irvine, 1996
Michael T. Jones, associate professor, Ph.D., Yale, 1978
Bernd Krotz, professor emeritus, Ph.D., Marburg, Germany, 1963
Nels Jeffrey Rogers, assistant professor, Ph.D., Pennsylvania, 2001
Linda Kraus Worley, associate professor, Ph.D., Cincinnati, 1988

Division of Russian and Eastern Studies
Douglas N. Slaymaker, division director

Roger Anderson, professor emeritus, Ph.D., Michigan, 1967
Ihsan Bagby, associate professor, Ph.D., Michigan, 1986
Suleiman Darrat, senior lecturer, Ph.D., TU Berlin, 1981
Masanichi S. Inoue, associate professor, Ph.D., Duke, 1999
Gerald Janecek, professor, Ph.D., Michigan, 1972
Mark R. Lauerzlof, associate professor, Ph.D., Kansas, 1995
Edward S. Lee, associate professor, Ph.D., Pittsburgh, 1976
Jeanmarie Rouhier-Willoughby, associate professor, Ph.D., Virginia, 1992
Cynthia Rudert, associate professor, Ph.D., Cornell, 1987
Douglas N. Slaymaker, associate professor, Ph.D., Washington, 1997
Leon Zolondek, professor emeritus, Ph.D., Chicago, 1957

PHILOSOPHY
Theodore R. Schatzki, chair

David Bradshaw, associate professor, Ph.D., Texas, 1996
J. Daniel Breazeale, professor, Ph.D., Yale, 1971
Ronald Bruzina, professor, Ph.D., Notre Dame, 1966; Doctorat de 3e cycle, Paris-Nanterre, France, 1970
Joan C. Callahan, professor, Ph.D., Maryland, 1982
James Force, professor, Ph.D., Washington University, 1977
Sanford Goldberg, associate professor, Ph.D., Columbia, 1995
Dallas M. High, professor emeritus, Ph.D., Duke, 1964
Dien Ho, assistant professor, Ph.D., CUNY Graduate Center, 2003
Harmon R. Holcomb, III, associate professor, Ph.D., Wisconsin, 1984
Scott M. James, lecturer, Ph.D., Maryland, 2005
Olive Leaman, professor, Ph.D., Cambridge, 1999
Branden C. Look, associate professor, Ph.D., Chicago, 1997
James W. Mans, professor emeritus, Ph.D., Boston University, 1971
Thomas M. Olshewsky, professor emeritus, Ph.D., Emory, 1965
Alan R. Perreiah, professor, Ph.D., Indiana, 1967
Henry A. S. Schankula, associate professor emeritus, Ph.D., Toronto, 1976
Theodore R. Schatzki, professor, Ph.D., California-Berkeley, 1986
Ana M. Superson, associate professor, Ph.D., Illinois, Chicago, 1989
Christopher F. Zurn, associate professor, Ph.D., Northwestern, 1999

**PHYSICS AND ASTRONOMY**

Joseph W. Brill, chair
Suketu Bhavsar, associate professor, Ph.D., Princeton, 1978
Joseph Warren Brill, professor, Ph.D., Stanford, 1978
Gang Cao, professor, Ph.D., Temple, 1992
Michael Cavagnero, professor, Ph.D., Chicago, 1987
John Ernest Christopher, associate professor, Ph.D., Virginia, 1967
John W. D. Connolly, professor, Ph.D., Florida 1966
Christopher B. Crawford, assistant professor, Ph.D., Massachusetts Institute of Technology, 2005
Sumit Ranjan Das, professor, Ph.D., Chicago, 1983
Lance Eric DeLong, professor, Ph.D., California-San Diego, 1977
Terrence Draper, professor, Ph.D., California-Los Angeles, 1984
Michael I. Eides, professor, Ph.D., Leningrad State, 1977
Moshe Elitzur, professor, Ph.D., Weizmann Institute, 1971
Renee H. Fatemi, assistant professor, Ph.D., Virginia, 2002
Gary Ferland, professor, Ph.D., Texas-Austin, 1978
Fletcher Gabbard, professor emeritus, Ph.D., Rice, 1959
Susan V. Gardner, professor, Ph.D., Massachusetts Institute of Technology, 1988
Tim Paul Gorringer, professor, Ph.D., Birmingham, 1984
Howard Grotch, professor emeritus, Ph.D., Cornell, 1967
Gerald P. Huffman,* professor of chemical engineering, Ph.D., West Virginia, 1965
Bernard Donald Kern, professor emeritus, Ph.D., Indiana, 1949
Wolfgang Korsch, associate professor, Ph.D., Marburg, 1990
Michael A. Kovash, professor, Ph.D., Ohio State, 1978
Guy Walter Lehman, professor emeritus, Ph.D., Purdue, 1954
Nancy A. Levenson, associate professor, Ph.D., California-Berkeley, 1997
Bing-An Li, professor, Ph.D., Academia Sinica, China, 1968
Keh-Fei Liu, professor, Ph.D., SUNY at Stony Brook, 1975
Keith Bradford MacAdam, professor, Ph.D., Harvard, 1971
Alan Douglas MacKellar, professor emeritus, Ph.D., Texas A&M, 1966
Nicholas L.S. Martin, professor, Ph.D., Oxford, 1977
Marcus T. McElhirst, professor emeritus, Ph.D., Wisconsin, 1956
Madhu Menon,* adjunct assistant professor, Ph.D., Notre Dame, 1986
Ganapathy Murthy, professor, Ph.D., Yale, 1987
Kwok-Wai Ng, professor, Ph.D., Iowa State, 1986
Bradley Plaster, assistant professor, Ph.D., Massachusetts Institute of Technology, 2004
Alfred D. Shapere, associate professor, Ph.D., California-Santa Barbara, 1988
Isaac Shlosman, professor, Ph.D., Tel Aviv, 1986
Joseph Paul Straley, professor, Ph.D., Cornell, 1970
Thomas H. Troland, professor, Ph.D., California-Berkeley, 1980
Jesse L. Weil, professor emeritus, Ph.D., Columbia, 1959

*adjunct or joint appointment

**POLITICAL SCIENCE**

Donald A. Gross, chair
Horace A. Bartilow, associate professor, Ph.D., SUNY-Albany, 1994
Emily Beaulieu, assistant professor, Ph.D., California-San Diego, 2006
Bradley C. Canon, professor, Ph.D., Wisconsin, 1967
Charles L. Davis, professor, Ph.D., Kentuck, 1974
Herbert N. Drennon, professor emeritus, Ph.D., Duke, 1951
Richard Fording, associate professor, Ph.D., Florida State, 1997
George H. Gadbois, professor emeritus, Ph.D., Duke, 1965
Donald A. Gross, professor, Ph.D., Iowa, 1976
Edward T. Jennings, Jr.,* professor, Ph.D., Washington University, 1977
Malcolm E. Jewell, professor emeritus, Ph.D., Penn State, 1958
Penny Miller, professor emeritus, Ph.D., Kentucky, 1986
Karen A. Mingst,* professor, Ph.D., Wisconsin, 1974
Daniel Morey, assistant professor, Ph.D., Iowa, 2006
Mark A. Peffley, professor, Ph.D., Minnesota, 1984
Kirk Randazzo, assistant professor, Ph.D., Michigan State, 2003
Herbert G. Reid, professor, Ph.D., North Carolina, 1968
Ellen D. Riggle, associate professor, Ph.D., Illinois, 1990
John D. Stemple,* professor, Ph.D., California-Berkeley, 1965
S. Sidney Ulmer, professor emeritus, Ph.D., Duke, 1956
D. Steven Voss, associate professor, Ph.D., Harvard, 1998
Richard W. Waterman, professor, Ph.D., Houston, 1986
Ernest Yanarella, professor, Ph.D., North Carolina, 1971

* joint appointment

**PSYCHOLOGY**

Charles R. Carlson, chair
Chana Akins, associate professor, Ph.D., Texas, 1994
Michael A. Andykowski,* professor, Ph.D., Illinois, 1984
Ruth A. Baer, professor, Ph.D., West Virginia, 1985
Michael T. Bardo, professor, Ph.D., Iowa State, 1980
Susan Barron, associate professor, Ph.D., SUNY-Albany, 1987
Philip K. Be, professor, Ph.D., Texas Christian, 1969
David T. R. Berry, professor, Ph.D., Florida, 1985
Ramesh S. Bhatt, professor, Ph.D., Iowa, 1988
Troy Bitson, lecturer, Ph.D., Kentucky, 2004
Gregory W. Brock,* professor, Ph.D., Penn State, 1978
Christia S. Brown, associate professor, Ph.D., Texas, 2003
Tamarra L. Brown, associate professor, Ph.D., Illinois, 1996
Charles R. Carlson, professor and chair, Ph.D., Vanderbilt, 1983
C. Melody Carswell, associate professor, Ph.D., Illinois, 1988
Jay O. Castaneda, lecturer, Ph.D., Kentucky, 2005
W. John Curtis, assistant professor, Ph.D., Minnesota, 2002
C. Nathan DeWall, assistant professor, Ph.D., Florida State, 2007
Mark T. Fillingmore, professor, Ph.D., Waterloo, 1993
Andrea M. Friedrich, lecturer, Ph.D., Kentucky, 2005
Peter R. Giancola, professor, Ph.D., Georgia, 1996
Jonathan M. Golding, professor, Ph.D., Denver, 1986
Lawrence Gottlob, associate professor, Ph.D., Arizona State, 1995
Dianna E. Hartley,* adjunct assistant professor, Ph.D., Vanderbilt, 1978
Rick H. Hoyle, adjunct professor, Ph.D., North Carolina, 1988
Mitzi M.S. Johnson,* associate professor, Ph.D., Ohio State, 1986
Carol E. Jordan,* adjunct instructor, M.S., Eastern Kentucky, 1983
Jane E. Joseph,* assistant professor, Ph.D., Virginia, 1996
Monica J. Kern, associate professor, Ph.D., Harvard, 1987
Sung Hee Kim, associate professor, Ph.D., Tufts, 1991
Philipp J. Kraemer, professor, Ph.D., Western Ontario, 1982
Elizabeth P. Lorch, professor, Ph.D., Massachusetts, 1981
Robert F. Lorch, Jr., professor, Ph.D., Massachusetts, 1980
Steven J. Mangime,* adjunct assistant professor, Ph.D., Kentucky, 1992
Mary Beth McGravan, senior lecturer, Ph.D., Kentucky, 1999
William J. Meegan,* assistant professor, Ph.D., Kentucky, 1975
Richard S. Milich, professor, Ph.D., Washington University, St. Louis, 1976
John R. Neill,* professor, Ph.D., Maryland, 1973
T. Kerby Neill,* adjunct assistant professor, Ph.D., Catholic University of America, 1968
Arthur J. Nonneman,* associate professor, Ph.D., Florida, 1970
Mark A. Prendergast, associate professor, Ph.D., Nebraska, 1994
Donald R. Ralph,* professor, Ph.D., Catholic University of America, 1965
John D. Rasen, associate professor, Ph.D., Ohio, 1982
Frederick A. Schmitt,* associate professor, Ph.D., Akron, 1982
Suzanne C. Segerstrom, professor, Ph.D., California, 1997
Arthur L. Schecht,* adjunct assistant professor, Ph.D., Kentucky, 1987
Cynthia A. Smith,* associate professor, Ph.D., California-Alameda, 1995
Gregory T. Smith, professor, Ph.D., Wayne State, 1985
Richard Smith, associate professor, Ph.D., North Carolina, 1985
Ronald D. Taylor, associate professor, Ph.D., Texas Christian, 1981
Thomas A. Widiger, professor, Ph.D., Miami (Ohio), 1981
John F. Wilson,* professor, Ph.D., Michigan, 1977
Thomas R. Zentall, professor, California-Berkeley, 1969

*joint or adjunct appointment

**SOCIOLGY**

Patrick Mooney, chair
Walter Abbott, professor emeritus, Ph.D., Washington, 1970
Patricia Ahmed, assistant professor, Ph.D., UCLA, 2005
Joanna Badagliacca, associate professor, Ph.D., Columbia, 1987
Wendy Baldwin, professor, Ph.D., Kentucky, 1973
Dwight Billings, professor, Ph.D., North Carolina, 1976
Larry Burmeister,* associate professor, Ph.D., Cornell, 1984
C. Milton Coughenour, professor emeritus, Ph.D., Missouri, 1953
Alan DeYoung,* professor, Ph.D., Stanford, 1975
Patricia Dyk,* associate professor, Ph.D., Utah State, 1990
Thomas R. Ford, professor emeritus, Ph.D., Vanderbilt, 1951
University Faculty

Kelley Deaton, assistant professor (part-time), D.M.D., Louisville, 1985
David Gore, assistant professor (part-time), D.M.D., Kentucky, 1982
James E. Haubenreinrich, assistant professor, D.D.S., Memphis, 1977
Howard L. Higgins, assistant professor (part-time), D.M.D., Kentucky, 1975
Robert E. Kovarik, associate professor, D.M.D., Kentucky, 1982; M.S., Georgia, 1991
Janet F. Lee, assistant professor (part-time), Kentucky, 1982
Stacie Maggard, assistant professor (part-time), D.M.D., Kentucky, 1998
Daniel B. Manley, assistant professor (part-time), D.M.D., Kentucky, 1981
Richard J. Mitchell, associate professor, M.S., Georgia, 1971; Ph.D., Virginia, 1975
Paul B. Osborne, assistant professor (part-time), D.M.D., Kentucky, 1978
Deborah S. Ray, assistant professor (part-time), D.M.D., Kentucky, 1987; G.P.R., Cert., Kentucky, 1988
Fonda G. Robinson, associate Professor, D.M.D., Kentucky, 1992
Stephen P. Selwitz, assistant professor (part-time), D.M.D., Kentucky, 1975
Carol Williams, assistant professor (part-time), D.M.D., Kentucky, 2006
Carol Wilson, assistant professor (part-time), D.M.D., Kentucky, 2006

Comprehensive Care

Thomas A. McConnell, division chief
Timothy M. Armentrout, associate professor, D.M.D., Kentucky, 1982
Ershai Harrison, assistant professor (part-time), D.M.D., Kentucky, 1981
Thomas A. McConnell, associate professor, D.D.S., University of the Pacific, 1977

DEPARTMENT OF ORAL HEALTH SCIENCE

Jeffrey P. Okeson, chair
Chifu B. Huang, assistant professor, M.S., Kentucky, 1990; Ph.D., Kentucky; MBA, Washington, 2002
Mengtao Li, assistant professor, M.D., Beijing, 1989; Ph.D., Louisville, 1995

Oral and Maxillofacial Surgery

Joseph D. Van Sickels, division chief
Larry L. Cunningham, Jr., assistant professor, D.D.S., Texas, 1995; M.D., Texas, 1998
Richard Haug, professor, D.D.S., State University of New York, 1974
Bethany Serafin, assistant professor, D.M.D., Pennsylvania, 2000

Pediatric Dentistry

John R. Mink, acting division chief
Elizabeth Barr, assistant professor (part-time), D.M.D., Kentucky, 1974
Nelle Barr, assistant professor (part-time), D.M.D., Kentucky, 1991
Rodney Jackson, assistant professor (part-time), D.M.D., Kentucky, 2001
Jeffrey Johnson, assistant professor (part-time), D.M.D., Kentucky, 2001; M.P.H., Kentucky, 2003
Harold D. Lester,** assistant professor, D.M.D., Louisville, 1963
Donna Meek, assistant professor, D.M.D., Kentucky, 2001
John R. Mink, professor, D.D.S., Indiana, 1956; M.S.D., Indiana, 1961
Heather Owens, assistant professor (part-time), D.M.D., Tennessee, 1997
Hayden Phillips, assistant professor (part-time), D.M.D., Kentucky, 2003
Catherine Robinette, assistant professor (part-time), D.M.D., Kentucky, 2004

General Dentistry

Ted P. Raybould, division chief
George Bailey, assistant professor, D.M.D., Kentucky, 1984
John B. Burt, assistant professor, D.M.D., Kentucky, 1996
Eric T. Demann, assistant professor, D.M.D., Kentucky, 2000
Marc D. Dyer, assistant professor (part-time), D.M.D., Louisville, 2004
Christian S. Fraley, assistant professor, D.M.D., Kentucky, 1996; G.P.R. Cert., Kentucky, 1997
Daria Stone, assistant professor, D.M.D., Kentucky, 1995
James R. Thompson, assistant professor (part-time), D.M.D., Kentucky, 1978

Oral Pathology

Dean K. White, division chief
Yi-Ling Lin, assistant professor, D.D.S., Taipeh, Taiwan, 1989; Ph.D., Harvard, 1997
Dean K. White, professor, D.D.S., Missouri, 1970; M.S.D., Indiana, 1972

Oral and Maxillofacial Surgery

René de Leeuw, division chief
Ruth A. Baer,** associate professor, Ph.D., Virginia, 1985
Charles R. Carlson,** associate professor, Ph.D., Vanderbilt, 1983
Lyle W. Carlson, assistant professor (part-time), M.S., Univ of Southern California, 1977; Ph.D., Univ of South Dakota, 1992
René de Leeuw, associate professor, D.M.D., State Univ Groningen, 1988; Ph.D., State Univ Groningen, 1994
John E. Lindroth, associate professor, D.D.S., West Virginia, 1977; Fellowship, Orofacial Pain, Kentucky, 1992
Jeffrey P. Okeson, professor, D.M.D., Kentucky, 1972
Alan D. Wilkinson, assistant professor (part-time), D.M.D., Louisville, 1973; Fellowship, Orofacial Pain, Kentucky, 1991

Orthodontics

G. Thomas Klueeper, division chief
G. Thomas Kluepper, associate professor, D.M.D., Kentucky, 1983; M.S., Orthodontics, Michigan, 1991
Judith M. Knight, associate professor (part-time), D.M.D., Kentucky, 1967; Cert. Orthodontics, Kentucky, 1972
C. Michael Stanbury, assistant professor (part-time), D.M.D., Kentucky, 1976; Cert Orthodontics, Kentucky, 1979
Paul Tran, assistant professor (part-time), D.M.D., Baylor, 1990; M.S., Kentucky, 1994
J. Philip Wahle, assistant professor (part-time), D.M.D., Kentucky, 1990; M.S., Kentucky, 1993

Public Health Dentistry

Oscar A. Arevalo, division chief
C. Lawrence Chiswell, professor (part-time), D.M.D., Kentucky, 1972
J. David Hardison, professor, D.M.D., Kentucky, 1980
Alan A. Kaplan,** associate professor, Ph.D., Kentucky, 1975
Karl Lange, professor (part-time), D.M.D., Louisville, 1968
Kavita Mathu-muju, assistant professor, D.D.S., University of Manitoba, 1993
Judith Skelton, associate professor, Ph.D., Florida, 1983
Jenny L. Stigers, assistant professor (part-time), D.M.D., Kentucky, 1984; G.P.R. Cert., Kentucky, 1986
John A. Thompson, assistant professor (part-time), D.M.D., Kentucky, 1971

*joint appointment
**adjunct series

COLLEGE OF DESIGN

David Mohney, dean

SCHOOL OF ARCHITECTURE

David M. Biagi, director
David M. Biagi, assistant professor, M.Arch., Ohio State
Hilary Bryon, lecturer, Ph.D., University of Pennsylvania
Clyde R. Carpenter, professor and chair of Historic Preservation Department, M.Arch., Pennsylvania
Stephen C. Deger, associate professor, M.Arch., Illinois, Urbana-Champaign
Hans Gesund, professor, Department of Civil Engineering, College of Engineering and College of Design, D.Eng., Yale
James Gibson, instructor, M.Arch., Illinois
Michael W. Jacobs, instructor, B.Arch., Kentucky
Peyman Jahed, instructor, A.B.D., Kentucky
Richard S. Levine, professor, M.Arch., Rensselaer Polytechnic Institute
Karen Lewis, instructor, M.Arch., Harvard
Gregory Luhan, assistant professor, M.Arch., Princeton
Neil McComb, instructor, B.Arch., Kentucky
Michael Mckay, instructor, M.Arch., Princeton
Wallis Miller, Charles Parker Graves Professor of Architecture, Ph.D., Princeton
David Moloney, professor, M.Arch., Princeton
Mark J. O’Bryan, associate professor, M.Arch., Cornell
Drura Parrish, instructor, Southern California Institute of Architecture, M.R.+D
Anthony Roccanova, associate professor, M.Arch., Cornell
Jerzy Rozenberg, associate professor, M.F.A., Cinema Studies, New York University
Heinrich Schnoedt, John Russell Graves/Kentucky Housing Corporation Endowed Visiting Professor in Affordable Housing, M.Arch., Virginia Tech
Julia W. Smyth-Pinney, associate professor, M.Arch., Harvard
Randall S. Stevens, instructor, B.Arch., Kentucky
Elizabeth Swanson, associate professor, M.Arch., California-Berkeley
Bruce A. Swetnam, Kentuckiana Masonry Institute Associate Professor, B.Arch., Kentucky
Ed Trammell, instructor, B.Arch., Kentucky
Leonard F. Wujicik, associate professor, M.A., Industrial Education, Eastern Kentucky

SCHOOL OF INTERIOR DESIGN
Ann Whiteside-Dickson, director
Allison Carll White, professor, Ph.D., Tennessee
Sarah McNab, M.A., Louisville
Joe Rey-Barreau, associate professor, M.S., Louisville
Terry D. Rothgeb, associate professor, M.A., Missouri
Megan Metcalfe Shaw, instructor, M.A., Kentucky
Ann Whiteside-Dickson, associate professor, M.S., Florida State

DEPARTMENT OF HISTORIC PRESERVATION
Clyde Carpenter, FAIA, chair
Clyde R. Carpenter, FAIA, chair and Clay Lancaster Professor in Historic Preservation, M.Arch., Pennsylvania
Allison Carll-White, professor, School of Interior Design, Ph.D., Tennessee
Ned M. Crankshaw, ASLA, associate professor, Department of Horticulture and Landscape Architecture, College of Agriculture, M.L ARCH, Iowa State
Hans Gesund, professor, Department of Civil Engineering, College of Engineering and College of Design, D.Eng., Yale
Gregory Luhan, associate professor, College of Design, M.Arch., Princeton
Wallis Miller, Charles Parker Graves Professor of Architecture, Ph.D., Princeton
David Moloney, professor, M.Arch., Princeton
Nancy O’Malley, Assistant Director, William S. Webb Museum of Anthropology, Department of Anthropology, College of Arts and Sciences, M.A., Kansas
Carl B. Raitz, professor, Department of Geography, College of Arts and Sciences Ph.D., Minnesota
Julie Riesenweber, adjunct assistant professor, Department of Historic Preservation, M.A., Delaware
Daniel B. Rowland, associate professor, Department of History, College of Arts and Sciences, Ph.D., Yale
Richard H. Schem, associate professor, Department of Geography, Ph.D., Syracuse
Michael Spencer, associate professor, M.H.P., Kentucky
Alice V. Turkington, assistant professor, Department of Geography, Ph.D., Queen’s University of Belfast

COLLEGE OF EDUCATION
James G. Cibulka, dean

CURRICULUM AND INSTRUCTION
J. Truman Stevens, chair
Janice Almasi, associate professor, Ph.D., Maryland, 1993
Gary Anglin, associate professor, Ed.D., Indiana, 1979
Ronald Atwood, professor emeritus, Ed.D., Florida State, 1966
Virginia Atwood, professor emeritus, Ph.D., Texas, 1969
Harry V. Barnard, professor emeritus, Ed.D., Alabama, 1959
Ollie E. Bissmeyer, Jr., assistant professor emeritus, Ed.D., Indiana, 1964
Sharon Brennan, associate professor, Ed.D., Kentucky, 1987
Elnor Brown, associate professor, Ph.D., Akron, 1998
Les Burns, assistant professor, Ph.D., Michigan State, 2005
Susan Cantrell, assistant professor, Ed.D., Kentucky, 1997
Paige Carney, lecturer, Ed.D., Kentucky, 1995
Laurie Henry, assistant professor, Ph.D., Connecticut, 2007
Penny Howell, assistant professor, Ph.D., Columbia, 2004
Timothy Jacobbe, associate professor, Ph.D., Clemson, 2007
Willis Johnson, professor, Ed.D., Temple, 1975
Linda Levstik, professor, Ph.D., Ohio State, 1980
Xin Ma, professor, Ph.D., British Columbia, 1997
Joan Mazur, associate professor, Ph.D., Cornell, 1993
Nancye McCrary, assistant professor, Ed.D., Kentucky, 2001
Jack McElroy, professor emeritus, Ed.D., Cincinnati, 1974
Rebecca McNall, associate professor, Ph.D., Virginia, 2003
Margaret Mohr, assistant professor, Ph.D., Texas A&M, 2006
Phil Nacc, associate professor emeritus, Ed.D., University of British Columbia, Canada, 1970
Nina Nilsson, associate professor, Ph.D., Illinois-Chicago, 2005
Kristen Perry, assistant professor, Ph.D., Michigan State, 2007
Opal Reynolds, assistant professor emeritus, M.A., Kentucky, 1952
Rosetta F. Sandige, associate professor, Ed.D., Kentucky, 1989
Mary C. Shake, associate professor, Ed.D., SUNY at Albany, 1984
Doug Smith, associate professor, Ph.D., Arizona State, 1986
Felicia Cummings Smith, lecturer, M.A., Louisville, 2000
J. Truman Stevens, associate professor, Ed.D., Virginia, 1972
Gerry Swan, assistant professor, Ph.D., Virginia, 2004
Kathleen Swan, assistant professor, Ph.D., Virginia, 2004
Robert Tannenbaum,* adjunct professor, Ed.D., Columbia, 1968
Mary Ann Vumon, associate professor, Ph.D., Kentucky, 1976
Angene Wilson, professor emeritus, Ph.D., Ohio State, 1976
*joint appointment

EDUCATIONAL AND COUNSELING PSYCHOLOGY
Lynda Brown Wright, chair
Charlotte Clark, associate professor emeritus, Ph.D., Minnesota, 1977
Fred W. Danner, professor, Ph.D., Minnesota, 1974
Stephen T. DeMers, professor emeritus, Ed.D., Rutgers, 1976
Richard Gilman, associate professor, Ph.D., South Carolina, 1999
Keisha Love, assistant professor, Missouri-Kansas City, Ph.D., 2005
Angela Miller, assistant professor, Ph.D., Missouri-Kansas City, 2006
Kristen N. Missaul, assistant professor, Ph.D., Minnesota, 2002
H. Thompson Prout, professor, Ph.D., Indiana, 1976
Jeff Reese, assistant professor, Ph.D., Texas A&M, 2000
Pam Remer, associate professor, Ph.D., Colorado, 1972
Rory Remer, professor, Ph.D., Colorado, 1972
Sharon S. Rostosky, associate professor, Ph.D., Tennessee, 1998
William E. Stilwell III, professor emeritus, Ph.D., Stanford, 1969
Kenneth M. Tyler, assistant professor, Ph.D., Howard, 2002
Ellen Usher, assistant professor, Ph.D., Emory, 2007
Judith Worell, professor emeritus, Ph.D., Ohio State, 1954
Lynda Brown Wright, associate professor, Ph.D., Texas A&M, 1991

EDUCATIONAL LEADERSHIP STUDIES
James S. Rinehart, chair
Lars G. Bjork, associate professor, Ph.D., New Mexico, 1983
Rose Boulay, lecturer, Ed.D., Spalding, 2006
Patricia Browne-Ferrigno, associate professor, Ph.D., Colorado at Denver, 2001
James G. Cibulka, professor, Ph.D., Chicago, 1973
Fred Edmonds, professor emeritus, Ed.D., Kentucky, 1961
Charles F. Faber, professor emeritus, Ph.D., Chicago, 1961
J. John Harris III, professor, Ph.D., Michigan, 1972
Charles S. Hausman, associate professor, Ph.D., Vanderbilt, 1997
Robert C. Knoepfel, assistant professor, Ph.D., Virginia, 2001
Joyce P. Logan, associate professor, Ed.D., Vanderbilt, 1988
James S. Rinehart, associate professor, Ph.D., Ohio State, 1988
Susan J. Scallay, associate professor, Ph.D., Kansas State, 1979
Eddy J. Van Meter, professor emeritus, Ed.D., New Mexico State, 1971

EDUCATIONAL POLICY STUDIES AND EVALUATION
Beth Goldstein, chair
Richard Angelo, associate professor, Ed.D., Temple, 1978
Jeffery P. Bieber, associate professor, Ph.D., Michigan, 1990
Kelly Bradley, assistant professor, Ph.D., Ohio State, 2002
Clinton Collins, associate professor emeritus, Ph.D., Indiana, 1970
Alan J. DeYoung, professor, Ph.D., Stanford, 1975
Beth Goldstein, associate professor, Ph.D., Wisconsin, 1985
Thomas R. Guskey, professor, Ph.D., Chicago, 1979
Jane Jensen, associate professor, Ph.D., Indiana, 1997
Edward Kifer, professor emeritus, Ph.D., Chicago, 1973
Virginia Davis Nordin, associate professor, J.D., Harvard, 1959
Eric Reed, assistant professor, Ph.D., Iowa, 2006
John Thelin, professor, Ph.D., California at Berkeley, 1973
Karen Tice, associate professor, Ph.D., Kentucky, 1993

KINESIOLOGY AND HEALTH PROMOTION
Melody Noland, chair
Mark Abel, assistant professor, Ph.D., Utah, 2006
Rayma Beal, associate professor, Ed.D., Cincinnati, 1985
Aaron Beighle, assistant professor, Ph.D., Arizona State, 2003
T. Jeff Chandler, adjunct professor, Ed.D., Auburn, 1987
Jody L. Clusey, associate professor, Ph.D., Illinois, 1993
Heather Erwin, assistant professor, Ph.D., Illinois, 2006
John Hall, associate professor, Ph.D., 1991
Stanley Labanowich, associate professor emeritus, Ph.D., Illinois, 1975
Kim Miller, associate professor, Ph.D., Southern Illinois, 2000
David Ross Mullineaux, assistant professor, Ph.D., Sheffield Hallam, 2002
James Nance, associate professor emeritus, Ed.S., Eastern Kentucky, 1977
Melody Noland, professor, Ph.D., Maryland, 1981
Steve Parker, associate professor, Ed.D., Kentucky, 1995
Bruce A. Rector, adjunct professor, J.D., Kentucky, 1990
Richard Rigs, associate professor, Ed.D., Tennessee, 1975
Robert Shapiro, professor, Ph.D., Illinois-Urbana, 1979
Lucian Taylor, associate professor, Ph.D., Mississippi, 1995
Dennis Vinton, associate professor emeritus, Re.D., Indiana, 1969
Andrew Weiner, associate professor, Ed.D., Georgia, 1976
James W. Yates, associate professor, Ph.D., Penn State, 1980

SPECIAL EDUCATION AND REHABILITATION COUNSELING
Deborah Bott Slaton, chair
Margaret Bausch, assistant professor, Ed.D., Kentucky, 1999
William H. Bardine, professor emeritus, Ed.D., Penn State, 1972
Malachy Bishop, associate professor, Ph.D., Wisconsin-Madison, 2000
William Calderhead, assistant professor, Ph.D., Oregon, 2003
Belva Collins, professor, Ed.D., Kentucky, 1990
Ralph M. Crystal, professor, Ph.D., Wisconsin, 1977
Sonja M. Feist-Price, professor, Ph.D., Southern Illinois, 1992
Jennifer Grishaw-Brown, associate professor, Ed.D., Kentucky, 1985
William Gustashaw, assistant professor, Ph.D., Virginia, 2005
Karen Hager, assistant professor, Ph.D., Utah State, 2005
Debra A. Harley, professor, Ph.D., Southern Illinois, 1992
Lee Ann Jung, assistant professor, Ph.D., Auburn, 2001
Katherine McCormick, associate professor, Ph.D., Auburn, 1990
Robert McKenzie, professor, Ph.D., Iowa, 1981
Deborah Bott Slaton, professor, Ph.D., Florida, 1983
Donald Stenhoff, assistant professor, Ph.D. Utah State, 2005
Jennifer Stringfellow, assistant professor, Ph.D., Nevada, 2007
Kim Townley, associate professor, Ph.D., Missouri, 1984

COLLEGE OF ENGINEERING
Thomas W. Lester, dean

BIOMEDICAL ENGINEERING
(see faculty listing under The Graduate School, page 400)

CHEMICAL AND MATERIALS ENGINEERING
Tate T. H. Tsang, chair
Thomas John Balk II, assistant professor, Ph.D., Johns Hopkins, 2000
Dibakar Bhattacharyya, professor, Ph.D., Illinois Institute of Technology, 1966
Subodh K. Das, adjunct professor, Ph.D., Michigan Ann Arbor, 1974
Thomas D. Dziubla, assistant professor, Ph.D., Drexel, 2002
Richard E. Eitel, assistant professor, Ph.D., Penn State, 2003
Peter P. Gillis, professor emeritus, Ph.D., Brown, 1964
Eric A. Grulke, professor, Ph.D., Ohio State, 1975
Charles F. Hamrin Jr., professor emeritus, Ph.D., Northwestern, 1964
Zachary Hilt, assistant professor, Ph.D., Texas at Austin, 2004
Bruce J. Hinds III, associate professor, Ph.D., Northwestern, 1996
Gerald P. Huffman, research professor, Ph.D., West Virginia, 1965
Frank E. Huggins, research professor, Massachusetts Institute of Technology, 1975
Douglas S. Kalika, professor, Ph.D., California-Berkeley, 1988
Michael C. Kemp, * assistant professor, Ph.D., Tennessee Technological University, 1995
Richard I. Kermode, professor, Ph.D., Northwestern, 1962
Barbara Knutson, professor, Ph.D., Georgia Institute of Technology, 1994
Wenchang Liu, assistant research professor, Ph.D., Harbin Institute of Technology, China, 1997
John A. Nyckta, assistant professor, Ph.D., California-Santa Barbara, 2006
Kenji Okazaki, professor emeritus, Dr. Eng. Sci., Kyoto University, 1967
Stephen E. Rankin, associate professor, Ph.D., Minnesota, 1998
Asit K. Ray, professor, Ph.D., Clarkson College of Technology, 1980
Philip J. Reucroft, professor emeritus, Ph.D., Imperial College, England, 1959
J. Thomas Schrodt, professor emeritus, Ph.D., Louisville, 1966
Naresh Shah, associate research professor, Ph.D., Kentucky, 1987
David L. Silverstone, associate professor STS, Ph.D., Vanderbilt, 1998
Jim L. Smart, associate professor STS, Ph.D., Texas at Austin, 1997
John M. Stencel, adjunct assistant professor, Ph.D., Vanderbilt, 1976
Tate H. Tsang, professor, Ph.D., Texas at Austin, 1980
Fujian Yang, associate professor, Ph.D., Rochester, 1994
Tongguang Zhai, associate professor, Ph.D., Oxford, England, 1994
*joint appointment

CIVIL ENGINEERING
George E. Blandford, chair
Staley F. Adams, professor emeritus, Ph.D., Colorado, 1965
James E. Black, adjunct assistant professor, M.S., Kentucky, 1976
George E. Blaxland, professor, Ph.D., Cornell, 1981
Gail Brion, professor, Ph.D., Colorado, 1995
L. Sebastian Bryson, assistant professor, Ph.D., Northwestern, 2002
Richard Cheeks, adjunct assistant professor, M.S., Kentucky, 1972
Mai Chen, associate professor, Ph.D., New Jersey Institute of Technology, 1999
John A. Dearderer, professor emeritus, M.S., Kentucy, 1948
Vincent P. Denevich, professor emeritus, Ph.D., Michigan, 1967
James Fox, assistant professor, Ph.D., Iowa, 2005
Hans Gesund, professor, D.Engr., Yale, 1958
Paul M. Goodrum, associate professor, Ph.D., Texas-Austin, 2001
Don E. Hancher, professor, Ph.D., Purdue, 1972
Bobby O. Hardin, professor emeritus, Ph.D., Florida, 1961
Issam E. Harik, professor, Ph.D., Wayne State, 1982
Yang H. Huang, professor emeritus, D.Sc., Virginia, 1966
John W. Hutchinson, professor emeritus, Ph.D., Illinois, 1961
Michael E. Kalinski, associate professor, Ph.D., Texas-Austin, 1998
Kamyar C. Mahboub, professor, Ph.D., Texas A&M, 1988
William F. Maloney, professor, Ph.D., Michigan, 1976
Lindell E. Ormsbee, professor, Ph.D., Purdue, 1983
Kenneth L. Perry, associate professor, M.S., Murray, 1975
Jerry G. Rose, professor, Ph.D., Texas A&M, 1971
Nikiforos Statamatadis, professor, Ph.D., Michigan State, 1990
Robert A. Walker, associate professor, M.S., Eastern, 1978
Shien T. Wang, professor emeritus, Ph.D., Cornell, 1969
Yi-Tin Wang, professor, Ph.D., Illinois Urbana-Champaign, 1984
Don J. Wood, professor emeritus, Ph.D., Carnegie Institute of Technology, 1961
Scott Yost, associate professor, Ph.D., Michigan, 1995

COMPUTER SCIENCE
Mirosław Truszczynski, chair
Anthony Q. Baxter, associate professor, Ph.D., Virginia, 1973
Kenneth L. Calvert, professor, Ph.D., Texas at Austin, 1991
Fuhua Cheng, professor, Ph.D., Ohio State, 1982
Duncan Clarke, adjunct assistant professor, Ph.D., Pennsylvania, 1996
Craig C. Douglas, professor, Ph.D., Yale, 1982
Zongming Fei, associate professor, Ph.D., Georgia Institute of Technology, 2000
Raphael A. Finkel, professor, Ph.D., Stanford, 1976
Judith A. Goldsmith, professor, Ph.D., Wisconsin-Madison, 1988
James Griffioen, professor, Ph.D., Purdue, 1991
Jane E. Hayes, associate professor, Ph.D., George Mason, 1999
J. Robert Heath, * professor, Ph.D., Auburn, 1973
Jerzy W. Jaromczyk, associate professor, Ph.D., Warsaw, Poland, 1984
Debby L. Keen, lecturer, Ph.D., Kentucky, 1994
Andrew M. Klapper, professor, Ph.D., Brown, 1982
K. K. Kubota,* professor, Ph.D., Facultes des Sciences de Paris, France, 1969
Forbes D. Lewis, professor emeritus, Ph.D., Cornell, 1970

386 University Faculty
ELECTRICAL AND COMPUTER ENGINEERING

Kevin D. Donohue, interim chair
Robert J. Adams, associate professor, Ph.D., Virginia Polytechnic, 1998
Lyle N. Back, assistant professor emeritus, M.S., Kentucky, 1962
Eugene B. Bradley, professor emeritus, Ph.D., Vanderbilt, 1964
Jimmie J. Cathey, professor, Ph.D., Texas A&M, 1972
Zhen Chen, associate professor, Ph.D., Illinois at Urbana-Champaign, 1999
John D. Croston,* assistant professor, Ph.D., Auburn, 1992
William R. Dieter, assistant professor, Ph.D., Kentucky, 2001
Henry Dietz, professor, Ph.D., Polytechnic, 1987
Raymond J. Distler, associate professor emeritus, Ph.D., Kentucky, 1964
Kevin D. Donohue, professor, Ph.D., Illinois Institute of Technology, 1987
Joseph A. Elias, adjunct assistant professor, Ph.D., Rice, 1996
Stephen D. Goddard, professor, Ph.D., Illinois at Urbana-Champaign, 1991
Gregory Gerhardt,* professor, Ph.D., Kansas, 1983
Regina Hannemann, lecturer, Ph.D., Kassel, Germany, 2001
Laurence G. Hassebrook, associate professor, Ph.D., Carnegie Mellon, 1990
J. Todd Hastings, assistant professor, Ph.D., Massachusetts Institute of Technology, 2003

James M. Herford, associate professor, Ph.D., Georgia Institute of Technology, 1990
Allen M. Hermann, visiting professor, Ph.D., Texas A&M, 1965
Lawrence E. Holloway, professor, Ph.D., Carnegie-Mellon, 1990
Prasad K. Kadaba, professor emeritus, Ph.D., California Institute of Technology, 1996
Joseph A. Latto, professor, Ph.D., Michigan-Ann Arbor, 2000
Yuan Liu, assistant professor, Ph.D., Illinois at Urbana-Champaign, 2001
Robert A. Lodder,* professor, Ph.D., Indiana, 1988
Caicheng Lu, associate professor, Ph.D., Illinois at Urbana-Champaign, 1995
James E. Lumm, assistant professor, Ph.D., Iowa, 1993
Janet K. Lumm, associate professor, Ph.D., Iowa, 1993
Charles E. May, adjunct assistant professor, Ph.D., Kentucky, 1977
Syed A. Nasir, professor emeritus, Ph.D., California-Berkeley, 1963
Clayton R. Paul, professor emeritus, Ph.D., Purdue, 1970
Arthur V. Radun, assistant professor, Ph.D., Massachusetts Institute of Technology, 1981
Osamah Rawasheh, lecturer, Ph.D., Kentucky, 2005
J. Scott Savage, assistant professor, Ph.D., Georgia Institute of Technology, 1997
Vijay P. Singh, professor, Ph.D., Minnesota, 1974
William T. Smith, associate professor, Ph.D., Virginia Polytechnic Institute, 1990
Joseph Sottile, Jr., assistant professor, Ph.D., Penn State, 1991
Ingrid St. Omer, assistant professor, Ph.D., Missouri-Columbia, 1996
Lee T. Todd Jr., professor, Ph.D., Massachusetts Institute of Technology, 1974
Frederick C. Trutt, professor emeritus, Ph.D., Delaware, 1964
Bruce L. Walcott, professor, Ph.D., Purdue, 1987
Yu-Ming Zhang, professor, Ph.D., Harbin Institute of Technology, China, 1990

Vincent R. Capece, associate professor STS, Ph.D., Purdue, 1987
Willis Merle Carter, professor emeritus, Ph.D., Michigan, 1953
Subodh K. Das, adjunct professor, Ph.D., Michigan-Ann Arbor, 1974
Omer W. Dixit, Jr., professor emeritus, D.Eng., Sci., Columbia, 1959
Craig C. Douglas,* professor, Ph.D., Yale, 1982
James E. Funk, professor emeritus, Ph.D., Pittsburgh, 1960
Dayong Gao, professor, Ph.D., Concordia, 1991
Ottfried J. Hahn, professor emeritus, Ph.D., Princeton, 1964
Mark T. Hanson, associate professor, Ph.D., Northwestern, 1989
David W. Herrin, assistant research professor, Ph.D., Kentucky, 2000
I. S. Jawahir, professor, Ph.D., University of New South Wales, 1986
Marwan Khraisheh, associate professor, Ph.D., Washington State, 1996
Raymond P. LeBeau, assistant professor, Ph.D., Massachusetts Institute of Technology, 1997

MINING ENGINEERING

Richard J. Sweigard, chair
Rick Q. Honaker, professor, Ph.D., Virginia Polytechnic Institute, 1992
Joseph W. Leonard, professor emeritus, M.S., Penn State, 1958
G. T. Lineberry, professor, Ph.D., West Virginia University, 1982
Braden T. Lusk, assistant professor, Ph.D., Missouri-Rolla, 2006
Richard S. Mateer, professor emeritus, Ph.D., Pittsburgh, 1950
B. K. Parekh, adjunct professor, Ph.D., Penn State, 1984
Richard J. Sweigard, professor, Ph.D., Penn State, 1984
Daniel Tao, associate professor, Ph.D., Virginia Polytechnic Institute, 1994
Konstanty F. Unrug, professor, D.S.C., Krakow, 1971
Andrzej Wala, professor, Ph.D., Krakow, 1972

UK CENTER FOR MANUFACTURING

Lawrence E. Holloway, director
Fazleena Badurdeen,* assistant professor, Ph.D., Ohio, 2005
Arlie Hall, lecturer, Ed.D., Vanderbilt, 1991
Lawrence E. Holloway,* professor, Ph.D., Carnegie-Mellon, 1990
I.S. Jawahir,* professor, Ph.D., University of New South Wales, 1986
Douglas S. Kalika,* professor, Ph.D., California-Berkeley, 1988
Marwan Khraisheh,* associate professor, Ph.D., Washington State, 1996
Jingshan Li,* assistant professor, Ph.D., Michigan, 2000
Jian Sheng, assistant professor, Ph.D., Johns Hopkins, 2006
David J. Shippy, professor emeritus, Ph.D., Iowa State, 1963
Chen-Chi Wu, professor, Ph.D., Texas at Austin, 1981

MECHANICAL ENGINEERING

Keith E. Rouch, chair
Mohamed Hassan Ali, lecturer, Ph.D., Michigan-Ann Arbor, 1997
Rodney J. Andrews, adjunct assistant professor, Ph.D., Kentucky, 1999
Fazleena Badurdeen, assistant professor, Ph.D., Ohio, 2005
John R. Baker, associate professor STS, Ph.D., Kentucky, 1999
Millard F. Beatty, Jr., professor emeritus, Ph.D., Johns Hopkins, 1964
James M. Benson,* assistant professor, M.S., Southern Illinois, 1983
Louis M. Brock, professor, Ph.D., Northwestern, 1972
Roy D. Burberry, assistant professor emeritus, M.A., Kentucky, 1958
COLLEGE OF FINE ARTS
Robert Shay, dean

ART
Benjamin C. Withers, chair
Ruth Adams, associate professor, M.F.A., Miami, 1999
Garry Bibbs, associate professor, M.F.A., Kentucky, 1986
Anna Brzyski, assistant professor, Ph.D., Chicago, 1999
Dennis Carpenter, associate professor, M.F.A., Florida, 1979
Alice Christ, associate professor, Ph.D., Chicago, 1992
Georgia Collins, professor emeritus, Ph.D., Ohio State, 1978
Gerald Ferstman, associate professor, M.F.A., Washington, 1965
Elizabeth Finkenstaedt, professor emeritus, Ph.D., Harvard, 1963
Joseph Fitzpatrick, professor emeritus, M.A., Louisville, 1958
Robert James Foose, associate professor emeritus, B.A., Kentucy, 1963
Marilyn Hamann, associate professor emeritus, M.A., California-Berkeley, 1970
Martha Henton, lecturer, M.A., Western Kentucky, 1972
Donald H. Hoffman, professor emeritus, Ed.D., Georgia, 1972
Robert Jensen, associate professor, Ph.D., California-Berkeley, 1987
Doreen Maloney, associate professor, M.F.A., Wisconsin, 1999
Andrew L. Maske, assistant professor, D.Phll., Oxford, 1995
Jane S. Peters, associate professor, Ph.D., Wisconsin-Madison, 1975
James Pierce, professor emeritus, Ph.D., Harvard, 1959
Allan Richards, associate professor, Ed.D., Illinois State, 1987
Arturo S. Sandoval, professor, M.F.A., Cranbrook, 1971
Dmitry Strakovskiy, assistant professor, M.F.A., Art Institute of Chicago, 2001
George Szekely, professor, Ed.D., Columbia, 1975
Robert Tharsing, associate professor emeritus, M.A., California-Berkeley, 1967
Monica Visonán, assistant professor, Ph.D., California-Santa Barbara, 1983
James Wade, Jr., lecturer, M.F.A., Georgia, 1996
Kathleen Wheeler, lecturer, M.A., Kentucky, 2005
Benjamin C. Withers, associate professor, Ph.D., Chicago, 1994

ARTS ADMINISTRATION PROGRAM
Michael E. Braun, director
Michael E. Braun, associate professor, M.A., St. Cloud State, 1978
Roger Paige, assistant professor, M.A., South Carolina, 1974

SCHOOL OF MUSIC
Ben Arnold, director
Ben Arnold, professor, Ph.D., Kentucky, 1986
Joseph W. Baber, professor, M.M., Rochester, 1965
Dennis Bender, assistant professor, M.M., Manhattan School of Music, 1986
Cody Birdwell, associate professor, D.M.A., North Texas, 1996
George R. Boulden, associate professor, M.M.E., South Carolina, 1986
Lance W. Brunner, associate professor, Ph.D., North Carolina, 1976
James B. Campbell, professor, M.M., Northern Illinois, 1978
W. Harry Clarke, associate professor, M.A., George Peabody, 1963
Nancy E. Clauter, associate professor, M.M., Arizona, 1979
Angelique Clay, assistant professor, D.M.A., Kentucky, 2007
Mark Clodfelter, assistant professor, M.M., North Carolina School of the Arts, 1991
Kate R. Covington, associate professor, Ph.D., Indiana, 1982
Raleigh Dailey, lecturer, Ph.D., Kentucky, 2007
Richard C. Donnek, Jr., professor, Ph.D., Indiana, 1976
David G. Elliott, associate professor, M.M., Catholic University of America, 1968
Jonathan E. Gixon, professor, Ph.D., Princeton, 1979
Arthur Graham, professor emeritus, Ed.D., Columbia, 1960
Diana R. Hallman, associate professor, Ph.D., City University of New York, 1995
Hubert Henderson, professor emeritus, Ph.D., North Carolina, 1954
Alan B. Hersh, professor, D.Mus., Indiana, 1971
Lori R. Hetzel, associate professor, D.M.A., Michigan State, 1995
Sara Holroyd, professor emeritus, M.A., Columbia, 1951
Clifford Jackson, associate professor, B.A., Oberlin, 1977
Phyllis Jeness, professor emeritus, M.A., Kentucky, 1958
Benjamin C. Karp, associate professor, M.M., Indiana, 1983
Aimo J. Kiviniemi, professor emeritus, M.A., Ohio State, 1946
Charles H. Lord, associate professor, Ph.D., Indiana, 1978
Daniel E. Mason, associate professor, M.M., Southern California, 1977
Vicki McVay, lecturer, Ph.D., Kentucky, 2005
Patricia Montgomery, associate professor emeritus, D.M.A., Indiana, 1979
Miles S. Osland, professor, M.M., Eastman School of Music, 1987
Ronald A. Pen, associate professor, Ph.D., Kentucky, 1987
Gail Robinson, professor, honorary Ph.D., Rhodes College, 1982
Peter C. Simpson, associate professor, M.A., New Hampshire, 1975
David W. Sogin, associate professor, Ph.D., Texas at Austin, 1986
Lucien P. Stark, professor emeritus, D.M.A., Michigan, 1968
Irina Vorobyeva, associate professor, D.M.A., Montreal, 1997
Cecilia Hoi-Mee Chu Wang, associate professor, Ph.D., Texas Tech, 1975
Dale E. Warren, associate professor, M.M., University of N. Colorado, 1976
Scott Wright, assistant professor, D.M.A., Arizona State, 1999

DEPARTMENT OF CLINICAL SCIENCES
Karen Skaff, chair

Clinical and Reproductive Sciences
Doris J. Baker, division director
Doris J. Baker, professor, M.T. (ASCP), CLS (NCA), HCCLD (AAB), Ph.D., Wright State, 1991
Philip Bridges, assistant professor, B.Sc.Agr., M.S., Ph.D., West Virginia, 1999
Kim Campbell, instructional assistant, adjunct professor, M.T. (ASCP), M.S., Kentucky, 1985
Damadoran Chendil, assistant professor, Ph.D., University of Madras, 1995
Patricia Ann Collins, associate professor emeritus, M.T. (ASCP), M.S., West Virginia, 1971
Linda Gorman, associate professor, M.T. (ASCP), M.S., Virginia Commonwealth, 1980; Ph.D., Kentucky, 1996
Chemyong (Jay) Ko, assistant professor, Ph.D., Seoul National University, 1998
Oliver Oakley, assistant professor, Ph.D., Wolverhampton, 1998
Julie Ribe, M.D. medical director, associate professor, M.D., Ph.D., Rochester, 1990
Margaret Stotman, instructional assistant, adjunct professor, M.T. (ASCP), S.B.B., B.S., M.P.H., Kentucky, 2004
E. Anne Stiene-Martin, professor emeritus, M.T. (ASCP), Ph.D., Kentucky, 1991
Marie Vittetoe, professor emeritus, M.T. (ASCP), C.L.S. (NCA), Ed.D., West Virginia, 1973

Clinical Nutrition
Maria G. Boosalis, division director
James W. Anderson, M.D., Northwestern, 1961
Gilbert Bossongneault, professor, Ph.D., Illinois, 1982
Maria G. Boosalis, associate professor, Ph.D., M.P.H., R.D., L.D., Minnesota, 1984
Geza G. Bruckner, professor, Ph.D., Kentucky, 1979
Toni Gardner, assistant adjunct professor, M.S., R.D., Kentucky, 1979
Richard Schwartz, M.D., Virginia 1979

*joint appointment
Physician Assistant Studies
Julie Gurwell, interim program director
Gilbert A. Boissonneault, professor, Ph.D., PA-C, Illinois, 1982; Kentucky, 2001
David A. Fahringer, associate professor, M.S.P.H., PA-C, Kentucky, 1992
Gerry A. Gairola, professor, Ph.D., Kentucky, 1975
Bill Grimes, assistant professor, D.Min., PA-C, Kentucky, 1982; Graduate Theologi- cal Seminary, 2002
Julie Gurwell, assistant professor, Ph.D., PA-C, Kentucky, 1994, 2003
Robert D. Hadley, associate professor, Ph.D., PA-C, Iowa, 1983; P.A., Medical University of South Carolina, 1997
Debra Nickell, associate professor, M.B.A., PA-C, Dallas, 1988; Kentucky, 1997
Sam Powdrell, assistant professor, M.Phil., PA-C, University of London, England, 1992; North Dakota, 1999

Radiation Sciences
Ralph C. Christensen, division director
Ralph C. Christensen, associate professor, Ph.D., Colorado-Berkeley, 1971
Ellis L. Johnson,* assistant professor, Ph.D., Kentucky, 1993
Ali S. Meigouni,* professor, Ph.D., Ohio, 1984
Travis Painter, assistant professor, M.S., Kentucky, 1999
Marcus Randall, professor, M.D., North Carolina, 1982
Anthony Wolbarst, associate professor, Ph.D., Dartmouth, 1970
Robert Zwicker,* professor, Ph.D., Kentucky, 1972

*joint appointment

DEPARTMENT OF REHABILITATION SCIENCES
Judith L. Page, chair

Athletic Training
Carl G. Mattacola, division director
Timothy A. Butterfield, assistant professor, Ph.D., ATC, University of Calgary, 2005
Carl G. Mattacola, associate professor, Ph.D., ATC, Virginia, 1996
Tim Uhl, associate professor, Ph.D., ATC, P.T., Virginia, 1998

Communication Disorders
Judith L. Page, division director
Richard D. Andreatta, associate professor, Ph.D., Indiana, 1999
Jodelle F. Deem, associate professor, Ph.D., Memphis State, 1988
Gilson C. Capilouto, assistant professor, Ph.D., South Carolina, 2002
Lori Gonzalez, professor, Ph.D., Florida, 1989
Ellen C. Hagerman, clinical assistant professor, M.A., Northern Colorado, 1979
Bridget E. Houchnes, clinical assistant professor, M.S., Kentucky, 2003
Jane O. Kleinert, assistant professor, Ph.D., Kentucky, 2005
Robert C. Marshall, professor, Ph.D., Oklahoma, 1969
Donna Southerland Morris, associate professor, M.A., Eastern Kentucky, 1982
Anne D. Olson, assistant professor, M.A., Texas, 1985
Judith L. Page, associate professor, Ph.D., Purdue, 1981
Joseph C. Stemple, professor, Ph.D., Cincinnati, 1977
Sharon Stewart, associate professor, Ed.D., Kentucky, 1986
Kathleen M. Youse, assistant professor, Ph.D., Connecticut, 2005

Physical Therapy
Anne L. Harrison, division director
Dean P. Currier, professor emeritus, P.T., Ph.D., Maryland, 1971
Joan Darbee, lecturer, Ph.D., SUNY-Buffalo, 2000
Esther Dupont-Versteegden, Ph.D., University Health Science Center, San Antonio, 1995
Susan Eifgen, professor, P.T., Ph.D., Georgia State, 1984
M. Lynn English, assistant professor, P.T., M.S.Ed., Kentucky, 1995
Anne L. Harrison, associate professor, P.T., Indianapolis, 1983; Ph.D., Kentucky, 2002
Charles Hazle, assistant professor, P.T., M.S., Kentucky, 2000
Robbin Hickman, assistant professor, P.T., California State, 1979; D.Sc., Rocky Mountain University, 2007
Deborah G. Kelly, associate professor, P.T., M.S.Ed., Kentucky, 1987
Patrick Kitzman, assistant professor, Ph.D., Ohio State, 1994
Janice M. Kuperstein, associate professor, P.T., M.S.Ed., Kentucky, 1992
Stuart Ware, associate professor, Ph.D., Iowa State, 1980

COLLEGE OF LAW
Allan W. Vestal, dean
Richard C. Ausness, professor, LL.M., Yale, 1973
Drusilla Vansant Bakert, associate dean for admissions, scholarships and student affairs, J.D., Harvard, 1977
John Randolph Batt, professor emeritus, LL.M., Yale, 1960
Carolyn S. Bratt, professor and executive associate dean, J.D., Syracuse, 1974
Kevin P. Buckman, director of Continuing Legal Education, J.D., California-Western, 1992
Ruthelford B Campbell, Jr., professor, LL.M., Harvard, 1971
W. Jonathan Cardi, associate professor, J.D., Iowa, 1998
Allison I. Connally, associate clinical professor and director of legal clinic, J.D., Kentucky, 1983
Helene Davis, director of the Alvin E. Evans Law Library and assistant professor, J.D., Iowa; M.L.I.S., University of Washington, 2004
Mary J. Davis, professor, J.D., Wake Forest, 1985
Andrea L. Dennis, assistant professor, J.D., New York University, 1997
William H. Fortune, professor, LL.B., Kentucky, 1964
Christopher W. Frost, professor, J.D., Kentucky, 1986
Eugene R. Gask, professor, J.D., Minnesota, 1974
Alvin Lee Goldman, LL.B., New York, 1962
Mary Louise Graham, professor, J.D., Texas, 1977
Roberta M. Harding, professor, J.D., Harvard, 1986
Michael P. Healy, professor and Associate Dean for Academic Affairs, J.D., Pennsylvania, 1984
Thomas G. Hoffman II, assistant dean of development, M.A., Bowling Green State, 1977
Nicole Huberfeld, assistant professor, J.D., Seton Hall, 1998
Mark F. Kightlinger, assistant professor, J.D., Yale, 1988; Ph.D., Yale, 1991
Robert G. Lawson, professor, J.D., Kentucky, 1963
Thomas P. Lewis, professor emeritus, S.J.D., Harvard, 1964
Douglas C. Michael, professor, J.D., California-Berkeley, 1983
David H. Moore, assistant professor, J.D., Brigham Young, 1996
Kathryn L. Moore, professor, J.D., Cornell, 1988
Melynda J. Price, assistant professor, J.D., Texas, 2002; Ph.D., Michigan, 2006
Lori A. Ringhand, associate professor, J.D., Wisconsin, 1997
John M. Rogers, professor emeritus, J.D., Michigan, 1974
Paul E. Salamanca, professor, J.D., Boston College, 1989
Robert G. Schwemm, professor, J.D., Harvard, 1970
Susan Bybee Steele, associate dean for career services, J.D., Kentucky, 1988
Richard H. Underwood, professor, J.D., Ohio State, 1976
Stephen James Vasek, associate professor, LL.M., California, 1988
Allan W. Vestal, dean and professor, J.D., Yale, 1979
Harold R. Weinberg, professor, J.D., Case-Western Reserve, 1969
Sarah N. Wellin, professor, J.D., Kentucky, 1978
Richard A. Westin, professor, J.D., Pennsylvania, 1972

ANATOMY AND NEUROBIOLOGY
Jay A. Perman, dean

DONALD M. GASH, chair

Anders H. Andersen, associate professor, Ph.D., Purdue, 1983
Guoying Bing, associate professor, M.D., Ph.D., Rochester, 1988
Luke Harry Bradley, assistant professor, Ph.D., Ohio, 2001
Amadora J. Bruce-Keller, associate professor, Ph.D., Southern California, 1994
Jennifer Kurt Brueckner, associate professor, Ph.D., Kentucky, 1997
Hansuedi Rudolf Bueller, associate professor, Ph.D., Zurich, 1992
Wayne A. Coss, associate professor, Ph.D., Colorado State, 1987
Jinhui Chen, assistant professor, M.D., Ph.D., Shanghai Institute of Biochemistry, Chinese Academy of Sciences, 1997
Marilyn J. Duncan, professor, Ph.D., Worcester Polytechnic Institute, 1984
Don M. Gash, professor, Ph.D., Dartmouth College, 1975
James W. Geddes, professor, Ph.D., Saskatchewan, 1984
Jeffrey Neil Keller, associate professor, Ph.D., Kentuck, 1998
Jonathan Lifshitz, assistant professor, Ph.D., Pennsylvania, 2002
Brian R. MacPherson, professor, Ph.D., Memorial University of Newfoundland, 1978
Bruce Edward Maley, associate professor, Ph.D., Ohio State, 1979
Stephen Michael John Onifer, assistant professor, Ph.D., Indiana Central, 1991

COLLEGE OF MEDICINE
Jay A. Perman, dean

ANATOMY AND NEUROBIOLOGY
Don M. Gash, chair

Anders H. Andersen, associate professor, Ph.D., Purdue, 1983
Guoying Bing, associate professor, M.D., Ph.D., Rochester, 1988
Luke Harry Bradley, assistant professor, Ph.D., Ohio, 2001
Amadora J. Bruce-Keller, associate professor, Ph.D., Southern California, 1994
Jennifer Kurt Brueckner, associate professor, Ph.D., Kentucky, 1997
Hansuedi Rudolf Bueller, associate professor, Ph.D., Zurich, 1992
Wayne A. Coss, associate professor, Ph.D., Colorado State, 1987
Jinhui Chen, assistant professor, M.D., Ph.D., Shanghai Institute of Biochemistry, Chinese Academy of Sciences, 1997
Marilyn J. Duncan, professor, Ph.D., Worcester Polytechnic Institute, 1984
Don M. Gash, professor, Ph.D., Dartmouth College, 1975
James W. Geddes, professor, Ph.D., Saskatchewan, 1984
Greg Allen Gerhardt, professor, Ph.D., Kansas, 1983
Brian T. Gold, assistant professor, Ph.D., York University (Toronto), 1999
Richard C. Gronin, assistant professor, Ph.D., Laval, 1997
Edward Dallas Hall, professor, Ph.D., Cornell, 1976
Lothar H. Jennes, professor, Ph.D., Pars Lodon University - Salzburg, 1978
Jane E. Joseph, associate professor, Ph.D., Virginia, 1996
Jeffrey Neil Keller, associate professor, Ph.D., Kentucky, 1998
Jonathan Lifshitz, assistant professor, Ph.D., Pennsylvania, 2002
Brian R. MacPherson, professor, Ph.D., Memorial University of Newfoundland, 1978
Bruce Edward Maley, associate professor, Ph.D., Ohio State, 1979
Stephen Michael John Onifer, assistant professor, Ph.D., Indiana Central, 1991
FAMILY AND COMMUNITY MEDICINE

Samuel C. Matheny, chair
Karen Jo Barnes, assistant professor, M.D., Kentucky, 1982
John M. Bennett, assistant professor, M.D., Arkansas At Little Rock, 1986
Baretta R Casey, professor, M.D., FAAFP, Kentucky, 1991
Sylvia L. Cerel, assistant professor, M.D., Stanford, 1991
Valerie E. Cothran, assistant professor, M.D., Wake Forest, 2001
Max A Crocker, professor emeritus, M.D., Tennessee-Medical, 1963
Thomas A. Dale, assistant professor, M.D., Kentucky, 1972
Paul Larry Dassow, associate professor, M.D., MSPH, Washington, 1990
William G. Elder, associate professor, Ph.D., Texas Southwestern Medical Center at
Dallas, Texas, 1992
Maureen A. Flannery, assistant professor, M.D., Illinois Rockford, 1976
Ronald Cheyne Fleming, assistant professor, D.O., West Virginia School of Osteo
MD, 1992
Kamara Evette Garner, assistant professor, M.D., Kentucky, 2002
Michael Dale Hagen, professor, M.D., Missouri Columbia Campus, 1975
Ray Gee Hays, assistant professor, M.D., Kentucky, 1995
Robert G. Hosey, associate professor, M.D., State University of New York, 1993
Alison Iser, assistant professor, M.D., Kentucky, 1998
Larry D. Jones, assistant professor, M.D., Kentucky, 1980
Jennifer Marie Joyce, associate professor, M.D., Indiana Central, 1993
Shersten Kilipp, assistant professor, M.D., Columbia Univ—Columbia College, 1998
Michael R. King, assistant professor, M.D., Kentucky, 2001
Tamar Lynne Knox, assistant professor, Psy.D., Wright State, 1992
Archana Mahesh Kudrimoti, assistant professor, M.B.B.S., Osmania Univ., 1992
Margaret Miller Love, assistant professor, Ph.D., Minnesota, 1988
Mamata G. Majmundar, Instructor, M.D., Louisville, 2000
Samuel C. Matheny, professor, M.D., Kentucky, 1963
Paul Wayne McLaughlin, assistant professor, M.D., Kentucky, 1994
Mary Flesher Meek, assistant professor, M.D., Kentucky, 2002
William Louis Melahn, assistant professor, M.D., Georgetown, 1994
David J. Moore, assistant professor, M.D., Wright State, 1988
Brett Michael Muha, assistant professor, M.D., Kentucky, 2001
Michael Oatstachuk, assistant professor, M.D., Kentucky, 1987
Kyle Douglas Parish, assistant professor, M.D., Louisville, 2001
John A. Patterson, assistant professor, M.D., Tennessee-Medical, 1973
Kevin S. Pearce, assistant professor, M.D., M.P.H, Florida, 1983
James C. Puffer, professor, M.D., California Los Angeles, 1976
Darin Ratliff, assistant professor, M.D., Kentucky, 1999
Angela Y. Rice, assistant professor, D.O., Pikeville College, School of Osteopathic
Medicine, 2002
Phillip Roeder, professor, Ph.D., Florida State, 1973
Guy Roussel, assistant professor, M.D., Louisiana State Univ Sch of Medi, 1979
Michael E. Samuels, professor, Dr.P.H., North Carolina, 1975
Ellsworth C. Seeley, professor, M.D., Louisville, 1947
Kenneth Morris Slone, assistant professor, M.D., Louisville, 1984
Raymond D. Wells, assistant professor, M.D., Kentucky, 1965
Alan Stevens Wrightson, assistant professor, M.D., Kentucky, 1986
Elizabeth H. Young, associate professor, Dr.P.H., Texas Hlth Sci Ctr, 1985

GRADUATE CENTER FOR TOXICOLOGY

Mary Vore, chair
Chandra Gary Garrola, professor emeritus, Ph.D., Illinois - Urbana, 1969
Ning Gao, assistant professor, Ph.D., West China University of Medical, 1990
Liya Gu, assistant professor, Ph.D., Wayne State, 1992
Davy Jones, professor, Ph.D., Calif - Davis, 1982
Guo-Min Li, professor, Ph.D., Wayne State, 1991
Isabel Mellon, associate professor, Ph.D., Illinois Medical C, 1984
David Keith Orren, associate professor, Ph.D., North Carolina, 1991
Xianglin Shi, professor, Ph.D., West Virginia, 1988
Daret K. St. Clair, professor, Ph.D., Iowa, 1984
Mary Vore, professor, Ph.D., Vanderbilt, 1972
Zhigang Wang, professor, Ph.D., Texas At Austin, 1989
Hsin-Sheng Yang, assistant professor, Ph.D., Arizona State, 1994

INTERNAL MEDICINE

Frederick deBeer, chair
Shamik Aikat, assistant professor, M.D., Calcutta, 1990
Kenneth B. Ain, professor, M.D., Brown, 1981
Jorge Robinson Alegria, assistant professor, M.D., Concepcion, 1996
Paul Anaya, assistant professor, M.D., Ph.D., Baylor, 1999
James W. Anderson, professor, M.D., Northwestern, 1961
Susanne Markesbery Arnold, associate professor, M.D., Kentucky, 1992
Rohan I. Arnescue, assistant professor, M.D., University of Medicine, Tg.Mures,
Romania, 1994
Mukta Awasthi, assistant professor, M.D., Texas Medical, 1997
Paula Bailey, assistant professor, M.D., MHA, Kentucky, 2000
C. William Balke, professor, M.D., Temple, 1981
Tamas Banayasz, associate professor, Ph.D., Debrecen Medicinal and,
1996
Andre T. Baron, assistant professor, Ph.D., Case Western Reserve, 1989
Eric Salomon Bensadoun, associate professor, M.D., McGill, 1986
Rolando Berger, professor, M.D., University of San Carlos, Guatemala, 1974
Deirda D. Beshar, assistant professor, M.D., Kentucky, 1999
Alacia Lynnette Bigham, associate professor, M.D., Kentucky, 1998
David Coriell Booth, professor, M.D., Texas Hlth Sci Ctr, 1974
Antonio Bosch, assistant professor, M.D., Wisconsin-Madison, 1993
Leslie B. Branch, professor, M.D., North Carolina, 1965
Deborah J. Brandewie, assistant professor, M.D., Cincinnati, 1998
Stephen A. Brown, assistant professor, Ph.D., Kentucky, 1996
Dennis Christopher Bruemmer, assistant professor, M.D., Hamburg, 1998
James Scott Bryson, assistant professor, Ph.D., Miami, 1985
Ketan P. Buch, assistant professor, M.B.B.S., Kasturba Medical College, 1991
Nausherwan K. Burki, professor emeritus, MBBS, Ph.D., King Edward Medical
College, 1962
Lei Cai, assistant professor, M.D., Ph.D., Beijing Medical, 1998
Leigh Ann Callahan, associate professor, M.D., Kentucky, 2003
Craig A. Chasen, associate professor, M.D., Upstate Medical Center, 1979
Ye Chen-Izu, assistant professor, Ph.D., SUNY of Buffalo, 1994
Robert W. Collins, associate professor, M.D., Kentucky, 1986
Rosemarie L. Conigliaro, associate professor, M.D., State University of New York, 1987
Leslie Jane Crofford, professor, M.D., Tennessee-Medical, 1984
Tammy Nguyen Cross, assistant professor, M.D., Kentucky, 1995
Alan Daugherty, professor, Ph.D., Bath, 1981
Robert T. Davis, associate professor, M.D., Louisville, 1986
Willem J.S. de Villiers, professor, M.D., Ph.D., Stellenbosch, 1983
Frederic C. deBeer, professor, M.D., Pretoria, 1983
Kristy Sheffiel Deep, assistant professor, M.D., Kentucky, 2003
Philip A. DeSimone, professor, M.D., Vermont & State, 1967
Mark Boberg Dignan, professor, Ph.D., Tennessee-Knoxville, 1977
Dennis Edwin Doherty, professor, M.D., Ohio State, 1980
Nympha Bruna D’Souza, assistant professor, Ph.D., Bombay Institute of Technology, 1985
Mary Burke Duke, associate professor, M.D., Illinois Medical C, 1984
Erik Eckhardt, assistant professor, Ph.D., Utrecht Univ., 1999
David A. Escalante, assistant professor, M.D., Universidad de Montemorelos, Brazil, 1985
Martin E. Evans, professor, M.D., Virginia, 1976
Marie-Claude Faugere, professor, M.D., Aix-Marseille, 1973
Christopher A. Feddock, associate professor, M.D., Kentucky, 1998
Roger A. Fleischman, associate professor, M.D., Ph.D., Harvard-Radcliffe, 1976
Barbara Fleming-Phillips, assistant professor, M.D., Wright State, 1982
Deborah Ruth Flomenhoft, assistant professor, M.D., Temple, 1998
Nancy Carolyn Flowers, professor, M.D., Tennessee-Medical, 1956
James A. Flueck, associate professor, M.D., Minnesota, 1967
Robert Maximilian Friedler, professor emeritus, M.D., Chile, 1960
Jacqueline S. Gibson, professor, M.D., Kentucky, 1986
Richard J. Glassock, professor emeritus, M.D., California, 1960
Richard N. Greenberg, professor, M.D., Tufts, 1972
Charles H. Griffith, associate professor, M.D., Kentucky, 1985
Thomas A. Dale, professor, M.D., Vanderbilt, 1988
Theodore N Guiglia, associate professor emeritus, M.D., Louisville, 1956
John C. Gurley, professor, M.D., Ohio State, 1980

University Faculty 391
Steven A. Haist, professor, M.D., Kentucky, 1981
Hussam Nader Hamdalla, assistant professor, M.B.B.S., Jordan University School of Medicine, 1997
Colleen W. Hawthorne, assistant professor, M.D., Kentucky, 1987
John Watson Hayes, assistant professor, M.D., NE Ohio Univ College of Medicine, 2001
Johann Herberth, assistant professor, M.D., Friedrich Alexander, 1999
Zsolt Herberth, assistant professor, M.D., Friedrich Alexander, 2000
David Michael Hiestand, assistant professor, M.D., Ph.D., Kentucky, 1998
Edward Alan Hirschowitz, associate professor, M.D., Alabama-Univ College, 1989
Andrea Robert Hoellein, assistant professor, M.D., Hahmemann Medical College, 1999
Donald R. Holleman, associate professor, M.D., Duke, 1983
Leo Gallaspy Horan, professor, M.D., Tulane University of Louisiana, 1949
Ardis Dee Howland, professor, M.D., Kentucky, 1970
Dianna Sue Howard, associate professor, M.D., Kentucky, 1991
Michael Hsu-wen Huang, associate professor, M.D., Kentucky, 1993
Leighton T. Ina, assistant professor, M.D., SUNY of Buffalo, 1990
Suman Jana, assistant professor, M.D., Calcutta, 1991
Connie W. Jennings, assistant professor, M.D., Kentucky, 1988
Xinying Ji, assistant professor, M.D., Ph.D., Henan, 1985
Aaron James Kaibas, Instructor, D.O., Ohio, 2001
Bann C. Kang, professor emeritus, M.D., Kyung-Pook National, 1959
Dennis G. Karounos, associate professor, M.D., Kentucky, 1980
Michael Karu, professor, M.D., Pennsylvania, 1971
Bryan Kyle Kevork, assistant professor, M.D., Cleveland, 1999
Victoria L. King, assistant professor, Ph.D., Kentucky, 1999
Alvaro Gonzalez Koch, assistant professor, M.D., Chile, 1992
Nicholas J. Koszewski, associate professor, Ph.D., Iowa State, 1988
Steve S. Kraman, professor, M.D., University of Puerto Rico, 1973
Chien-Su Kuo, associate professor, M.D., National Taiwan, 1963
Ullin W. Leavel, professor emeritus, M.D., Duke, 1945
Lazaros John Lekakis, assistant professor, M.D., Athens, 1995
Guohong Li, assistant professor, M.D., Ph.D., Zhejiang, 2001
Robert W. Lightfoot, professor, M.D., Vanderbilt, 1961
Richard Paul Loggen, professor, M.D., M.P.H., Michigan, 1978
Kristine Marie Lohr, professor, M.D., Rochester, 1975
Hartmut Horst Malachule, professor, M.D., Johannes W Goethe University of, 1969
Paul Mandelstam, professor emeritus, M.D., Ph.D., Harvard-Radcliffe, 1981
Ewa Janina Marciniak, associate professor, M.D., Academy of Medicine,Wroclaw, 1951
Samuel Houssam Mardini, assistant professor, M.D., MPH, Damascus, 1992
Suleiman Ali Massarweh, assistant professor, M.D., Jordan, 1994
Hanna W. Mawad, associate professor, M.D., Damascus, 1978
Alberto Mazzeoli, professor, M.D., Milan, 1952
C. Kenneth McAllister, professor, M.D., Emory, 1970
Rick Raymond McClure, associate professor, M.D., Kentucky, 1983
James R. McCormick, professor, M.D., Connecticut, 1972
Malkanthie I. McCormick, professor, M.B.B.S., Open University of Sri Lanka, 1967
William E. McDaniel, professor, M.D., India, 1924
Kevin Thomas McDonagh, associate professor, M.D., Columbia Univ—Columbia College, 1984
John Wade McKeown, professor, M.D., Tennessee-Medical, 1973
Robert Taylor Means, professor, M.D., Vanderbilt, 1983
Robin Rodeheaver Meck, assistant professor, M.D., West Virginia, 1984
Beth A. Miller, associate professor, M.D., Medical College of Ohio, 1991
Ralph E. Miller, professor, M.D., Sc.D., Harvard-Radcliffe, 1961
David Jon Moldt, professor, M.D., Medical College of Virginia, 1987
Gregory Patrick Monohan, assistant professor, M.D., Kentucky, 2000
Richard Scott Morehead, associate professor, M.D., Oral Roberts, 1988
Pedro R. Moreno, associate professor, M.D., Javeriana University,Bogota, Columbia, 1989
Andrew James Morris, professor, Ph.D., Birmingham, 1988
Debabrata Mukherjee, associate professor, M.D., Government Medical College, 1988
Nancy Kaufman Mullen, assistant professor, M.D., Louisville, 1997
Brian S. Murphy, assistant professor, M.D., Louisville, 1999
Joseph P. McGillis, associate professor, Ph.D., Drexel, 1995
Jeanne D. Fetherston, associate professor, Ph.D., Washington, 1981
Robert D. Perry, associate professor, Ph.D., Michigan State, 1984
Robert Geraghty, assistant professor, Ph.D., Wisconsin-Madison, 1983
John Philip Williams, associate professor, Ph.D., Oklahoma State, 1987
John Keenan Wilson, assistant professor, M.D., Kentucky, 2000
Trevor A. Winter, associate professor, MBCb, Ph.D., Zimbabwe, 1983
Gong Y. Xie, professor, Ph.D., Shanghai Second Medical Col., 1981
Catherine K. Chao, associate professor, Ph.D., Michigan, 1990
Mary E. Gafney, associate professor, Ph.D., University of Michigan, 1990
Khaled Mahmoud Ziada, associate professor, M.D., Cairo, 1988

**MICROBIOLOGY, IMMUNOLOGY AND MOLECULAR GENETICS**

Alan M. Kaplan, chair
Charles T. Ambrose, professor, M.D., Johns Hopkins, 1955
Babarao Bondada, professor, Ph.D., Bombay, 1976
Maria Emilia Bruno, assistant professor, Ph.D., Rutgers State Univ-Livingston Ca, 1994
Jason Anderson Carlyon, assistant professor, Ph.D., Richmond, 1999
Donald A. Cohen, professor, Ph.D., Cincinnati, 1979
Jeffrey Neal Davidson, professor, Ph.D., Harvard-Radcliffe, 1976
Sarah Elizabeth D'Orazio, assistant professor, Ph.D., Michigan, 1995
Jacqueline D. Fetherston, associate professor, Ph.D., Washington, 1981
Robert D. Perry, associate professor, Ph.D., Michigan State, 1991
Robert James Geraghty, assistant professor, Ph.D., Wisconsin-Madison, 1983
Robert J. Jacob, associate professor, Ph.D., Syracuse, 1974
Charlotte S. Kaetzel, professor, Ph.D., Maryland, 1979
Alan M. Kaplan, professor, Ph.D., Purdue, 1969
Heinz Kohler, professor, Ph.D., Technische University of Munich, 1965
Guangxiang Liao, professor, M.D., Hunan Medical University, Chiang-Sha, China, 1983
Francesc Martí, assistant professor, Ph.D., Barcelona, 1995
Joseph P. McGillis, associate professor, Ph.D., George Washington, 1983
Robert D. Perry, professor, Ph.D., Michigan State, 1978
Martha L. Peterson, professor, Ph.D., Wisconsin-Madison, 1984
Carol L. Pickett, associate professor, Ph.D., Texas A&M, 1983
Andrew J. Pierce, associate professor, Ph.D., North Carolina, 1995
Thomas L. Rosenthal, professor, Ph.D., Michigan State, 1966
Chongsuk Ryu, associate professor, Ph.D., Wayne State, 1998
Anthony Peter Sinai, associate professor, Ph.D., Rochester, 1994
James Scherbenske, assistant professor, M.D., State University of New York, 1957
Ernest Charles Snow, professor, Ph.D., Iowa, 1978
Brett T. Spear, professor, Ph.D., Pennsylvania, 1985
Marion Rothberg Steiner, associate professor, Ph.D., Kentucky, 1968
Brian Stevenson, associate professor, Ph.D., State New York, 1989

**University Faculty**
MOLECULAR AND BIOMEDICAL PHARMACOLOGY

Philip W. Landfield, chair

Eric Michael Blalock, assistant professor, Ph.D., Kentucky, 1997
Kuey Chu Chen, associate professor, Ph.D., Calif - Davis, 1983
Rolf Joseph Craven, assistant professor, Ph.D., North Carolina, 1996
Donald Frank Diedrich, professor emeritus, Ph.D., Wisconsin-Madison, 1959
James W. Flesher, professor, Ph.D., Loyola University of Chicago, 1958
Robert Wayne Hadley, associate professor, Ph.D., Michigan State, 1987
Edgar T Iwamoto, professor emeritus, Ph.D., City College of San Francisco, 1973
David M. Kaetz, professor, Ph.D., Maryland, 1981
Michael W. Kigore, associate professor, Ph.D., Texas Tech, 1990
Susan D. Kramer, assistant professor, Ph.D., Pennsylvania, 1989
Philip W. Landfield, professor, Ph.D., Calif - Irvine, 1971
Christopher M. Norris, assistant professor, Ph.D., Virginia, 1998
Norman W. Pedigo, assistant professor, Ph.D., Virginia Commonwealth Univ-Acade, 1977
Michael Thomas Piascik, professor, Ph.D., Ohio State, 1978
Rina Plattner, assistant professor, Ph.D., Indiana, 1992
Nada M. Porter, associate professor, Ph.D., Illinois Medical C, 1987
Steven R. Post, associate professor, Ph.D., Chicago, 1992
Hollie I. Swanson, associate professor, Ph.D., Purdue, 1991
Olivier H. Thibault, assistant professor, Ph.D., Bowman-Grey School of Medicine, 1993
Donna Rose Weber, assistant professor, Ph.D., Utah, 1984

MOLECULAR AND CELLULAR BIOCHEMISTRY

Louis Hersh, chair

Douglas A. Andres, professor, Ph.D., Purdue, 1990
Shung Kai Chan, professor emeritus, Ph.D., Wisconsin-Madison, 1962
Young-In Chi, assistant professor, Ph.D., Purdue, 1994
Trevor Paul Creamer, associate professor, Ph.D., Western Australia, 1989
Robert C. Dickson, professor, Ph.D., California, 1970
Rebecca Lynn Dutch, associate professor, Ph.D., Stanford, 1994
Brian Scott Finlin, assistant professor, Ph.D., Kentucky, 1999
Michael Gregory Fried, professor, Ph.D., Yale, 1982
Louis B. Hersh, professor, Ph.D., Brandeis, 1967
Alfred S. Hsu, professor emeritus, Ph.D., Oregon, 1957
Robert L. Lester, professor, Ph.D., California Institute of Technology, 1956
Harry LeVine, associate professor, Ph.D., Johns Hopkins, 1975
Richard Olin McCann, assistant professor, Ph.D., Georgia, 1995
Michael D. Mendenhall, associate professor, Ph.D., Wisconsin-Madison, 1985
Carole L. Moncman, assistant professor, Ph.D., Rutgers State Univ-Livingston Ca, 1993
Michael Paul Murphy, assistant professor, Ph.D., Toronto, 1997
Daniel J. Noonan, professor, Ph.D., Texas At Austin, 1980
Sabure Orcan, associate professor, Ph.D., University of Dusseldorf, Germany, 1993
David W. Rodgers, associate professor, Ph.D., Cornell, 1986
Kevin D. Sarge, professor, Ph.D., North Carolina State Univ, 1989
Steven Roger Schwarz, assistant professor, Ph.D., Wisconsin-Madison, 1998
Geng-Xian Shi, assistant professor, Ph.D., Peking Uni., 2000
Masahito Shimeno, assistant professor, Ph.D., Nagasaki Uni., 1995
H. Peter Spielmann, associate professor, Ph.D., California, 1991
Stefan Stam, associate professor, Ph.D., Hannover, 1992
Salvatore J. Turco, professor, Ph.D., Pittsburgh, 1992
Thomas Clark Vanaman, professor, Ph.D., Duke, 1968
Charles J. Waechter, professor, Ph.D., Kentucky, 1971
David S. Watt, professor, Ph.D., Harvard-Radcliffe, 1972
Sidney W. Whiteheart, professor, Ph.D., Johns Hopkins, 1989
Isaac Wong, associate professor, Ph.D., Pennsylvania State, 1990
Haining Zhu, assistant professor, Ph.D., California, 2000

NEUROLOGY

Joseph R. Berger, chair

Robert J. Baumann, professor, M.D., Case Western Reserve, 1965
Mertiem Bensalem Owen, assistant professor, M.D., Algiers, 1996
Joseph R. Berger, professor, M.D., Thomas Jefferson, 1974
Franca Cambi, associate professor, M.D., Ph.D., University of Florence, 1979
Jane W. Chan, associate professor, M.D., Thomas Jefferson, 1990
Gregory E. Cooper, assistant professor, M.D., Ph.D., Kentucky, 1994
Michael R. Dobbs, assistant professor, M.D., Kentucky, 1998
Chad M. Domangue, Instructor, M.D., Louisiana State Univ Sch of Medi, 2003
Toufic A. Fakhoury, associate professor, M.D., American University In Beirut, 1985
Farjam Farzam, assistant professor, M.D., Universidad Central Del Caribe, School of Medicine, 1996
Dominic B. Fee, assistant professor, M.D., Iowa, 1996
Sidney A. Houff, professor, M.D., Ph.D., Medical College of Virginia, 1972
Gregory A. Jicha, assistant professor, M.D., Ph.D., Yeshiva, 2000
Edward Joseph Kasarskis, professor, M.D., Ph.D., Wisconsin-Madison, 1974
William F. Maragos, associate professor, M.D., Ph.D., Northwestern, 1988
Michelle Lyn Mattingly, assistant professor, Ph.D., Florida State, 1999
Avindra Nath, professor, M.D., C.M.C., Ludhiana, India, 1981
Kevin R. Nelson, professor, M.D., Michigan, 1979
Luther Creed Pettigrew, professor, M.D., Texas Medical, 1980
William C. Robertson, professor, M.D., Emory, 1967
Stephen J. Ryan, associate professor, M.D., Missouri Columbia Campus, 1990
Frederick Adrian Schmitt, professor, Ph.D., Akron, 1982
John T. Slevin, professor, M.D., West Virginia, 1975
Charles D. Smith, professor, M.D., Tulane University of Louisiana, 1979
David A. Snowdon, professor, Ph.D., Minnesota, 1981
Tarvez Tucker, associate professor, M.D., Case Western Reserve, 1980
Anand Girish Vaishnav, assistant professor, M.D., M.B.B.S. - Vadodara Medical School, Vadodara, India, 1994

NEUROSURGERY

chair to be announced

Robert D. Owen, assistant professor, M.D., Indiana, 1999
Bin-Tao Pan, associate professor, Ph.D., McGill, 1983
Roy A. Patchell, professor, M.D., Kentucky, 1979
Thomas A. Pittman, professor, M.D., State New York At Albany, 1982
Christian Norman Ramsey, assistant professor, M.D., Kentucky, 2001
Karin R. Swartz, assistant professor, M.D., Loyola University of Chicago, 1996
Phillip A. Tibbs, professor, M.D., Kentucky, 1973
Michal Toborek, professor, M.D., Ph.D., Medical Academy of Silesia, 1985
A. Byron Young, professor, M.D., Kentucky, 1965
David M. Yurek, professor, Ph.D., Southern California, 1987

OBSTETRICS AND GYNECOLOGY

James E. Ferguson, chair

James W. Akin, assistant professor, M.D., Kentucky, 1985
John R. Barton, associate professor, M.D., Kentucky, 1985
Delwood C. Collins, professor, Ph.D., Georgia, 1966
Amy Laurel Cooper, Instructor, M.D., Kentucky, 2000
Thomas E. Curry, professor, Ph.D., East Carolina, 1983
Waller Lisle Dalton, associate professor, M.D., Kentucky, 1975
Paul Duane DePriest, professor, M.D., Kentucky, 1985
Christopher Philip DeSimone, assistant professor, M.D., Kentucky, 1997
Dalila S. Elkhairi, associate professor, M.D., Ohio State, 1997
James E. Ferguson, professor, M.D., Bowman-Grey School of Medicine, 1997
Elisa Adriana Gianferrari, assistant professor, M.D., Vermont, 1998
John W. Greene, professor, M.D., Pennsylvania, 1952
Wendy Petterman Hansen, associate professor, M.D., Michigan-Ann Arbor, 1986
Kathryn D. High, assistant professor, M.D., Kentucky, 1979
Misung Jo, assistant professor, Ph.D., Cornell, 2002
Kristine Yoder Lain, assistant professor, M.D., Chicago, 1994
John Matthew McDonald, Instructor, M.D., Wake Forest, 1997
Pamela R. Midboe-Penn, assistant professor, M.D., North Dakota, 1989
Frank C. Miller, professor, M.D., Louisville, 1962
Douglas A. Milligan, associate professor, M.D., Colorado, 1982
Gregory Robert Moore, associate professor, M.D., M.P.H., Uniformed Ser The Hlt Sc, 1983
Shona C. Murray, assistant professor, M.D., Canada - Queen’s U Medicine, 1988
Kenneth Newell Muse, associate professor, M.D., Kentucky, 1978
John M. O’Brien, associate professor, M.D., Wayne State, 1988
Edward John Pavlik, associate professor, Ph.D., Tennessee-Knoxville, 1975
Brook Allen Saunders, Instructor, M.D., Tennessee-Medical, 2001
Lynne Denise Simms, assistant professor, M.D., Louisville, 1995
Rudolph Michael Tovar, Instructor, M.D., Texas Hlth Sci Ctr, 2002
Frederick Rand Ueland, associate professor, M.D., Bowman-Grey School of Medicine, 1990
John Rensselaer van Nagell, professor, M.D., Pennsylvania, 1967
Jerold G. Woodward, professor, Ph.D., Massachusetts, 1982
Jan Marie Thompson, Instructor, Ph.D., Massachusetts, 1994
Glenn Christopher Telling, professor, Ph.D., Carnegie-Mellon, 1990
Jan Marie Thompson, Instructor, Ph.D., Massachusetts, 1994
Jiayou Zhang, associate professor, Ph.D., Texas At Austin, 1989

University Faculty
OPHTHALMOLOGY AND VISUAL SCIENCES
P. Andrew Pearson, chair
Jayashrini Ambati, professor, M.D., State University of New York, 1994
Robert Steven Baker, professor emeritus, M.D., McMaster, 1975
Alice Lawson Bashinsky, assistant professor, M.D., Wake Forest, 2000
Peter James Blackburn, assistant professor, M.D., Colorado-Denver, 1997
Cliff M. Caudill, assistant professor, O.D., Alabama-Univ College, 1995
John D. Conkin, associate professor, M.D., Kentucky, 1987
James David Crandall, assistant professor, M.D., Medical College of Virginia, 2000
Barbara K. Crutchfield, assistant professor, O.D., Indiana, 1990
Michael William Fannon, assistant professor, Ph.D., Boston, 1998
John W. Garden, professor, M.D., North Carolina, 1961
Nitin Gupta, Instructor, M.D., MPH, East Carolina, 2002
Douglas G. Katz, associate professor, M.D., Michigan-Ann Arbor, 1994
Richard A. Kieler, professor, M.D., Cincinnati, 1962
Royce Mohan, assistant professor, Ph.D., Ohio State, 1992
Sharon M. Napier, assistant professor, M.D., Kentucky, 1994
William N. older, professor, M.D., Kentucky, 1968
P. Andrew Pearson, professor, M.D., Cincinnati, 1987
Brian Jeffrey Raissler, assistant professor, Ph.D., Florida, 2003
Arthur K. Rivard, assistant professor, M.D., Kentucky, 1986
Sheila P. Sanders, associate professor, M.D., Kentucky, 1989
Julia C. Stevens, associate professor, M.D., Duke, 1983
Eric Richard Thomas, Instructor, M.D., South Dakota, 2001
Woodford Spears VanMeter, professor, M.D., Vanderbilt, 1979

ORTHOPAEDIC SURGERY
Darren L. Johnson, chair
Michael Boland, assistant professor, M.D., Otago, 1986
Ryan Carter Cassidy, assistant professor, M.D., NE Ohio Univ College of Medicine, 2000
D. Kay Clalson, professor, M.D., Harvard-Radcliffe, 1952
Mauro Giordani, associate professor, M.D., Southern California, 1984
Stephen L. Henry, professor, M.D., Louisville, 1981
Henry J. Iwinski, associate professor, M.D., Brown, 1985
Darren L. Johnson, professor, M.D., California, 1987
Christian Lattmann, assistant professor, M.D., Hannover, 1995
Steven J. Lawrence, associate professor, M.D., Thomas Jefferson, 1987
Scott Douglas Mair, associate professor, M.D., Duke, 1991
Todd Alan Milbrandt, assistant professor, M.D., Virginia, 1997
Daniel D. Primm, assistant professor, M.D., Medical College of Georgia, 1977
Scott B. Scutchfield, associate professor, M.D., Kentucky, 1975
Jeffrey Bryan Selby, assistant professor, M.D., Texas Tech, 1997
William O. Shaffer, professor, M.D., Michigan-Ann Arbor, 1976
Russell Alexander Shaftoff, assistant professor, M.D., Tulane University of Louisiana, 1984
David Bruce Stevens, professor, M.D., Northwestern, 1955
Vishwas R. Talwalkar, assistant professor, M.D., Washington, 1993
Chester M. Tylkowski, professor, M.D., Illinois Medical C, 1973
Janet L. Walker, associate professor, M.D., South Florida, 1981

PATHOLOGY AND LABORATORY MEDICINE
Paul Bachner, chair
Kimberly J. Absher, assistant professor, M.D., East Tennessee State, 1993
Paul Bachner, professor, M.D., Columbia University - College of Physicians and Surgeons, 1963
Michael David Blechner, assistant professor, M.D., Dartmouth College, 1998
Leonard I. Boral, professor, M.D., MBA, Pennsylvania, 1971
Yolanda Musgrave Brill, associate professor, M.D., Kentucky, 1988
Michael L. Cibull, professor, M.D., Illinois-Chicago C, 1973
Diane Davis Davey, professor, M.D., Washington, 1981
Gregory J. Davis, professor, M.D., Tennessee-Medical, 1985
Larry Gilroy Dickson, professor emeritus, M.D., Wayne State, 1959
Megan K. Dishop, assistant professor, M.D., Bowman-Gray School of Medicine, 1997
Jeffrey L. Ellis, associate professor, M.D., Louisville, 1988
Norman L. Goodman, professor, Ph.D., Oklahoma, 1965
John Claiborne Hunsaker, professor, M.D., J.D., Kentucky, 1977
C. Darrell Jennings, professor, M.D., Kentucky, 1977
James Edward Johnson, associate professor emeritus, Ph.D., Oklahoma, 1974
Rouzan Gourgen Karabakhtsian, assistant professor, M.D., Ph.D., Yerevan State Medical Institute, 1978
Melissa VanDyke Kesler, assistant professor, M.D., Kentucky, 1999
Eun Y. Lee, professor, M.D., Kyung Hee, 1978
Charles T. Lutz, professor, M.D., Ph.D., Chicago, 1982
William R. Markesbery, professor, M.D., Kentucky, 1964
Bonnie L. Mitchell, professor, M.D., Washington, 1976
Walid Aly Mourad, associate professor, M.D., Athens, 1979
Paul J. Murphy, Lecturer, M.D., Massachusetts, 1982
Peter Tobias Nelson, assistant professor, M.D., Chicago, 1998
William N. O'Connor, professor, M.D., National University of Ireland, 1972
Peter R. Oeltgen, professor, Ph.D., Loyola University of Chicago, 1973
Timothy L. Overman, associate professor, Ph.D., Cincinnati, 1971
Elpidio de Jesus Pena, assistant professor, M.D., Univ Catolica 'Madre Y Ma', 1965
Anjana L. Peter, associate professor, M.D., Baylor, 1983
William Hudson Porter, professor, Ph.D., Vanderbilt, 1970
Deborah E Powell, professor emeritus, M.D., Tufts, 1965
Ralph D Powell, professor emeritus, M.D., Boston, 1958
Joseph Franklin Pulliam, assistant professor, M.D., Kentucky, 1994
Julie A. Ribes, associate professor, M.D., Ph.D., Rochester, 1990
Cristin M. Rolf, assistant professor, M.D., Medical College of Ohio, 1991
Heather Louise Rutledge, assistant professor, M.D., Louisville, 1998
Luis Mario Samayoa, assistant professor, M.D., Universidad Evangelica de El Salvador
San Salvador, El Salvador, 1991
Jennifer Corey Schott, assistant professor, M.D., Kentucky, 1999
Robert R. Sloss, associate professor, M.D., Louisville, 1974
Norbert W. Tietz, professor, Ph.D., Technical University of Stuttgart, Germany, 1950
Ronald Jay Whiteley, professor, Ph.D., Georgia Institute of Technology, 1975
Dianne Wilson, associate professor, M.D., Kentucky, 1977
Donald B. Witzke, associate professor, Ph.D., Texas At Austin, 1975
Kokichi Yoneda, professor emeritus, M.D., Nara Medical Col., 1968
Megan Qian Zhang, assistant professor, M.D., Rush, 2001

PEDIATRICS
J. Timothy Bricker, chair
John Brannon Albert, assistant professor, M.D., Louisiana State Univ Sch of Medi, 1999
Michael I. Anstead, associate professor, M.D., Kentucky, 1989
Henrietta S. Bada-Elzey, professor, M.D., Santo Tomas, 1969
Shivaihai Balachandra, assistant professor, M.D., Bangalore, 1986
Hubert Ortho Ballard, associate professor, M.D., Kentucky, 1996
Carolyn A. Bay, associate professor, M.D., Rochester, 1985
Sherry L. Bayliff, assistant professor, M.D., Medical College of Ohio, 1995
Jeffrey S. Bennett, assistant professor, M.D., Texas A & M, 1994
Philip Alan Bernard, assistant professor, M.D., Texas Southwestern, 1993
Louis J. Bezold, associate professor, M.D., Maryland, 1989
Christopher A. Boorman, assistant professor, M.D., Kentucky, 1973
J. Timothy Bricker, professor, M.D., M.B.A., Ohio State, 1976
Katherine L. Bright, associate professor, M.D., Kentucky, 1976
Robert Allen Broughton, professor, M.D., Bowman-Gray School of Medicine, 1976
Margaret Casarette Bruce, associate professor, Sc.D., Harvard-Radcliffe, 1978
Lynn Renee Campbell, associate professor, M.D., Texas Sch Allied Health, 1980
Rebecca Lacy Collins, associate professor, M.D., Kentucky, 1986
Carol M Cottrill, professor, M.D., Cincinnati, 1971
Amrit Moham Denkar, assistant professor, M.D., MPH, All-India Ins.of Medical Science, 1997
Nirmala S. Desai, professor, M.B.B.S., Baroda Medical College, 1966
Thomas G. Di Sessa, professor, M.D., SUNY of Buffalo, 1971
John August D'Orazio, assistant professor, M.D., Ph.D., Miami, 1996
William V. Everson, assistant professor, Ph.D., Pennsylvania State, 1984
Doane Fischer, professor, M.D., Temple, 1947
Abe Roger Fusson, professor, M.D., Vanderbilt, 1964
John Donald Geil, associate professor, M.D., Kentucky, 1976
Kenneth L. Gerson, professor, M.D., Ohio State, 1958
Jens Goebel, assistant professor, M.D., Univ Heidelberg, 1989
Don Thomas Granger, associate professor, M.D., East Tennessee State, 1985
Martha F Greenwood, professor, M.D., Kentucky, 1968
Donna Glandon Grigoby, associate professor, M.D., East Tennessee State, 1986
Bryan D. Hall, professor, M.D., Louisville, 1965
Don Hayes, assistant professor, M.D., Kentucky, 1998
Irene Hong-McAtee, assistant professor, M.D., Washington, 1999
Marlene Belevs Huff, associate professor, Ph.D., Kentucky, 1999
Elizabeth Conner Jackson, associate professor, M.D., Virginia, 1978
Gregory L. Johnson, professor, M.D., Washington, 1971
Bahram Kakavand, assistant professor, M.D., Munich Medical School, Munich, Germany, 1988
Jamsheed Firoze Kanga, professor, M.D., Dow Medical College, 1976
Stefan Guenter Kessling, assistant professor, M.D., Friedrich Alexander, 1995
Janice M. Kregor, assistant professor, M.D., Kentucky, 1981
Cheri D. Landers, associate professor, M.D., Missouri Columbia Campus, 1993
University Faculty

PHYSIOLOGY

Michael B. Reid, chair
Francisco Humberto Andrade, associate professor, Ph.D., Texas A&I, 1986
Charles H. Bennett, professor, Ph.D., Kentucky, 1981
Kenneth Scott Campbell, assistant professor, Ph.D., Aberdeen, 1998
Maria C. deBeer, associate professor, Ph.D., Delft, 1992
Scott E. Diamond, assistant professor, Ph.D., Colorado, 1995
John Nicholas Diano, professor emeritus, Ph.D., Louisiana, 1965
Joseph Engelberg, professor emeritus, Ph.D., Pennsylvania, 1958
Karyn Ann Eser, assistant professor, Ph.D., Michigan-Ann Arbor, 1991
Steven Estus, associate professor, Ph.D., Case Western Reserve, 1990
Donald T. Frazier, professor, Ph.D., Kentucky, 1964
Gregory I. Frolov, assistant professor, Ph.D., Moscow Institute of Physics & Tech & Cardiology Research Center, 1988
Thomas W. Geithel, professor, Ph.D., Northwestern, 1969
Meng Cui Gong, associate professor, Ph.D., Peking Medical Col., 1994
Qihai Gu, assistant professor, Ph.D., Binzhou Medical College, 1993
Zhenheng Guo, assistant professor, Ph.D., Virginia, 1999
Karim Westland High, professor, Ph.D., Texas Medical, 1981
Henry R. Hirsch, professor emeritus, Ph.D., Massachusetts Institute of Tech, 1960
Brian A. Jackson, professor, Ph.D., Shepherd, 1977
Ying Jin, assistant professor, Ph.D., University of Hong Kong, 1998
Lu Yuan Lee, professor, Ph.D., Mississippi Medical, 1975
Sandra J. Legan, professor, Ph.D., Michigan, 1974
John Joseph McCarthy, assistant professor, Ph.D., Oregon, 1995
Timothy S. McClintock, professor, Ph.D., Florida, 1989
Douglas G. McMahon, professor, Ph.D., Virginia, 1986
Jennifer S. Moylan, assistant professor, Ph.D., Arizona, 1994
Marina Nikolovka-Karakashan, associate professor, Ph.D., Bulgarian Academy of Sciences, Institute of Biophysics, 1992
Ok-Kyong Park-Sarge, associate professor, Ph.D., Illinois - Urbana, 1989
Alexander G. Rabchevsky, associate professor, Ph.D., Florida, 1995
David C. Randall, professor, Ph.D., Washington, 1972
Michael B. Reid, professor, Ph.D., Texas Southwestern, 1980
Daniel Ray Richardson, associate professor, Ph.D., Indiana, 1969
Kathryn Eileen Saatman, associate professor, Ph.D., Pennsylvania, 1993
Jonathan Satin, associate professor, Ph.D., Emory, 1989
Bret N. Smith, associate professor, Ph.D., Tennessee-Medical, 1992
George Michael Smith, professor, Ph.D., Case Western Reserve, 1987
Dexter Franklin Speck, associate professor, Ph.D., Loyola University of Chicago, 1980
Sean David Stocker, assistant professor, Ph.D., Pittsburgh, 2002
Elizabeth Schroder Stumpf, assistant professor, Ph.D., SUNY of Buffalo, 1995
Melinda Elizabeth Wilson, assistant professor, Ph.D., Loyola University of Chicago, 1997
Fadi Xu, associate professor, M.D., Jiangxi Medical College, China, 1981
James F. Zollman, professor emeritus, Ph.D., California, 1963

PSYCHIATRY

Lon R. Hays, chair
Timothy S. Allen, assistant professor, M.D., Kentuck, 1998
Robert G. Aug, professor, M.D., Cincinnati, 1955
Allen J. Brenzel, associate professor, M.D., Louisville, 1988
Sean Buckley, assistant professor, M.D., Creighton, 1986
Cletus Savio Carvalho, associate professor, M.D., Jawaharlal Nehru Univ., 1990
Todd R. Cheever, associate professor, M.D., Kentuck, 1991
Enedelo R. Corales, assistant professor, M.D., University of St. Thomas Medical School - Manila Philippines, 1955
Jose de Leon, professor, M.D., Navare, 1982
Fiona Mary Doherty, associate professor, Dr., Royal Col of Physicians of Ireland, 1985
Carol E. Fisk-Owais, assistant professor, M.D., Loma Linda University La Sierra, 1979
Teresa G. Gevedon, associate professor, M.D., Louisiana, 1984
Paul E.A. Glaser, associate professor, M.D., Colorado, 1996
Todd R. Cheever, associate professor, M.D., Kentucky, 1991
Debra A. Katz, associate professor, M.D., Miami, 1984
Robert Francis Kraus, professor, M.D., Wisconsin, 1955
Michelle Renee Lofwall, assistant professor, M.D., Chicago, 1999
Arnold M Ludwig, professor emeritus, M.D., Pennsylvania, 1958
Catherine A. Martin, professor, M.D., Kentucky, 1976
Edward Nisbet Maxwell, associate professor, M.D., Kentucky, 1971
Daniel D. Nahum, associate professor, M.D., Hacettepe, 1970
University Faculty

John R Neill, associate professor, M.D., Maryland-Baltimore, 1973
James C. Norton, professor, Ph.D., Arizona, 1970
Amy Mills O’Neill, assistant professor, M.D., Kentucky, 1991
Jan Chandler Osborne, assistant professor, M.D., Mahary Medical College, 1996
Donald E. Ralph, professor, Ph.D., Catholic University of America, 1965
John D. Ranseen, associate professor, Ph.D., Ohio, 1982
Neil E. Scheurich, associate professor, M.D., Michigan-Ann Arbor, 1995
Robert E. Simon, assistant professor, M.D., Kentucky, 1994
Marian Swope, assistant professor, M.D., Kentucky, 1989
Jeffrey Paul Tuttle, assistant professor, M.D., Kentucky, 2003

RADIATION MEDICINE
Marcus E. Randall, chair
Dharmi D. Desai, assistant professor, Ph.D., Tennessee-Knoxville, 1997
J. Fred Dombros, associate professor, M.D., Kansas, 1957
Eduard Dvorak, assistant professor, M.D., Faculty of Medicine & Hygiene of Charles, 1966
Jose Maria Feola, associate professor emeritus, Ph.D., Minnesota, 1974
Jennifer Lynn Huhn, assistant professor, D.O., Kirksville College of Osteo Med, 1996
Ellis Lee Johnson, assistant professor, Ph.D., Kentucky, 1993
Mahesh Ravindra Kudrimoti, associate professor, M.D., Osmania Uni., 1992
Ronald Charles McGarry, associate professor, M.D., Ph.D., Calgary, 1992
Ali Soleimani Meigooni, professor, Ph.D., Ohio, 1984
Marnin A. Merrick, associate professor, M.D., Yale, 1985
Pushpa M. Patel, associate professor, M.D., Bombay, 1973
Pramod V. Prabhu, assistant professor, M.D., Kasturba Medical College, 1973
Marcus E. Randall, professor, M.D., North Carolina, 1982
Vivek M. Rampnekar, professor, Ph.D., Bombay, 1983
Marguerite A. Seltitt, assistant professor, M.D., Ph.D., State New York, 1988
William H. St. Clair, associate professor, Ph.D., Kentucky, 1995
Justine M. Yoneda, associate professor, Ph.D., State University of New York, 1972
Robert D. Zwickler, professor, Ph.D., Kentucky, 1972

SURGERY
Joseph B. Zwischenberger, chair
Amber L. Allen, Instructor, M.D., Tennesse-Medical, 2001
Sanford M. Archer, associate professor, M.D., The Chicago Medical School, 1983
Cherry Ballard-Croft, assistant professor, Ph.D., South Alabama, 1998
Daniel Alfred Beals, associate professor, M.D., Tulane University of Louisiana, 1985
Andrew C. Bernard, assistant professor, M.D., Kentucky, 1995
Bernard R. Boulanger, associate professor, M.D., Toronto, 1985
Phillip K. Chang, associate professor, M.D., Eastern Virginia Medical School, 1999
William T. Conner, professor, M.D., Tennessee, 1966
Jeffrey P. Coughenour, Instructor, M.D., Missouri-Kansas City Cam, 2001
Michael Donnelly, professor emeritus, Ph.D., Loyola University of Chicago, 1971
Eric D. Endean, professor, M.D., Michigan-Ann Arbor, 1980
Deborah R. Erickson, professor, M.D., Missouri Columbia Campus, 1984
Suellen Prins Ferraris, assistant professor, Ph.D., Colorado, 1969
Victor A. Ferraris, professor, M.D., Ph.D., Thomas Jefferson, 1977
Raymond J. Gianglardi, associate professor, M.D., Ohio State, 1993
Thomas J. Gal, associate professor, M.D., Thomas Jefferson, 1993
Roberto Gedaly, assistant professor, M.D., Universidad Central de Venezuela, 1990
James F Glenn, professor emeritus, M.D., Duke, 1952
William W Green, professor emeritus, Ph.D., Case Western Reserve, 1970
Patrick F. Haghpar, professor, Ph.D., Abany Medical College, 1960
Richard C. Haydon, associate professor, M.D., Virginia, 1978
Jon S. Hourgan, associate professor, M.D., East Tennessee State, 2000
Gordon Lee Hyde, professor emeritus, M.D., Michigan, 1957
Joseph A. Incono, assistant professor, M.D., Thomas Jefferson, 1993
Mohammed Salik Amanullah Jahania, associate professor, M.D., Karachi, 1989
Hoomae Jeon, assistant professor, M.D., Korea, 1990
Jody M. Johnson, Instructor, D.O., Pikeville College, 2001
Thomas D. Johnston, associate professor, M.D., Case Western Reserve, 1985
Raleigh O. Jones, associate professor, M.D., Kentucky, 1985
Herbert Kaufer, professor emeritus, M.D., Michigan, 1959
Paul A. Kearney, professor, M.D., Thomas Jefferson, 1980
Daniel Edward Kenady, professor, M.D., Georgetown, 1972
Natasha Kyprianou, professor, Ph.D., Wales, 1986
Chad Allen LaGrange, Instructor, M.D., Missouri-Kansas City Cam, 2001
Bruce Allan Lucas, professor emeritus, M.D., Duke, 1965
Patrick C. McGrath, professor, M.D., Illinois Medical C, 1980
J. William McRoberts, professor emeritus, M.D., Cornell, 1959
William R. Mims, assistant professor, M.D., Texas Medical, 1965
David A. Powell, associate professor, M.D., Massachusetts, 1996

Donald Edward Patterson, associate professor, M.D., Texas Hlth Sci Ctr, 1989
Richard A. Pollock, assistant professor, M.D., Emory, 1968
Andrew R. Pulito, associate professor, M.D., Columbia Univ School of General, 1969
Chand Ramanath, associate professor, M.B.B.S., Bangalore, 1989
Dinesh Ranjan, professor, M.D., Rangendra Medical College, Ranchi, India, 1978
Brian D. Rinker, assistant professor, M.D., Yale, 1996
Anna Kure Rockich, assistant professor, Pharm.D., Kentucky, 1998
Randall G. Rowland, professor, M.D., Ph.D., Northwestern Univ Medical School, 1972
Sibu P. Saha, professor, M.D., Rajshahah, 1986
Richard W. Schwartz, professor, M.D., Virginia, 1979
Jennifer B. Shinn, assistant professor, Ph.D., Connecticut, 2005
David A. Sloan, associate professor, M.D., McGill, 1977
Daniel H. Stewart, associate professor, M.D., W Virginia Univ, 1980
Stephen F. Strip, associate professor, M.D., Indiana Central, 1988
Keith D Vandenbrink, associate professor emeritus, M.D., Iowa, 1961
Henry C. Vasconez, professor, M.D., Central University of Ecuador, 1978
Heather R. Wright, assistant professor, M.D., Virginia, 1999
Eleftherios S. Xenos, assistant professor, M.D., Athens, 1989
Hong-Bo Zhao, associate professor, M.D., Ph.D., Shanghai Institute of Physiology, Chinese Academy of Sciences, 1992
Joseph Bertram Zwischenberger, professor, M.D., Kentucky, 1977

College of Nursing

Jane Marie Kirschling, dean
Debra G. Anderson, associate professor, Ph.D., Oregon, 1993
Kristin B. Ashford, lecturer, M.S.N., Louisville, 2008
Ruth Assell, associate professor emeritus, M.S., Colorado, 1994
Ruth D. Berry, assistant clinical professor emeritus, M.S.N., Wayne State, 1964
Perry K. Bohanoon, lecturer, M.S.N., Kentucky, 1990
Dorothy A. Brockopp, professor, Ph.D., SUNY-Buffalo, 1982
Karen M. Butler, assistant professor, D.N.P., Kentucky, 2006
Diane M. Cheloves, assistant professor, Ph.D., Ohio State, 2000
Norma J. Christman, associate professor emeritus, Ph.D., Wayne State, 1980
Misook L. Chung, assistant research professor, Ph.D., Kentucky, 2001
Jennifer B. Cowley, lecturer, M.S.N., Kentucky, 1997
Judith A. Daniels, assistant clinical professor, Ph.D., Kentucky, 2004
Claudia M. Diebold, lecturer, M.S.N., Arkansas, 1993
Juanita Fleming, professor emeritus, Ph.D., Catholic University, 1969
Susan K. Frazier, associate professor, M.S., Kentucky, 1995
Teresa A. Free, assistant professor, Ph.D., Texas-Austin, 1988
Evelyn Geller, associate professor emeritus, M.S.N., Catholic University, 1963; M.Ed., Columbia, 1972
Carrie M. Gordy, assistant clinical professor, M.S.N., Kentucky, 1994
Margarette B. Grier, professor emeritus, M.S., Texas Woman’s University, 1975
Ellen J. Hahn, professor, D.N.S., Indiana, 1991
Julia J. Hall, lecturer, M.S.N., Kentucky, 2004
Lynne A. Hall, professor, Dr.P.H., North Carolina-Chapel Hill, 1983
Frances Hardin-Fanning, lecturer, M.S.N., Kentucky, 2005
Melanie Hardin-Pierce, assistant professor, M.D., Kentucky, 2006
Victoria R. Hensley, clinical instructor, M.S., Ohio State, 1992
Margaret Hickman, associate professor, Ed.D., Ball State, 1992
Beth Hicks, associate professor emeritus, Ph.D., Texas-Austin, 1987
Patricia B. Howard, professor, Ph.D., Kentucky, 1992
Lynne A. Jensen, clinical assistant professor, Ph.D., Kentucky, 2007
Mikael Jones,* clinical assistant professor, Pharm.D., Kentucky, 2002
Lynn A. Kelso, assistant clinical professor emeritus, M.S., Tennessee, 1992
Jessica LaGodna, professor emeritus, M.D., Kentucky, 1975
Terry A. Lemiere, associate professor, Ph.D., Wisconsin-Madison, 1993
Cheryl B. Lewis, clinical instructor, M.S.N., Kentucky, 1999
Sharon E. Lock, associate professor, Ph.D., South Carolina-Columbia, 1990
Wanda Lovitz, lecturer, M.S.N., Bellarmine, 1999
Regina C. Lowry, lecturer, M.S.N., Kentucky, 1999
Debra K. Moser, professor, D.N.S., California-Los Angeles, 1992
Diane M. Murrell, lecturer, M.S.N., Kentucky, 1978
Mary Alice Pratt, associate professor emeritus, M.Ed., Columbia, 1970
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Degree</th>
<th>Institution</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mary K. Rayens</td>
<td>associate professor</td>
<td>Ph.D.</td>
<td>Kentucky</td>
<td>1993</td>
</tr>
<tr>
<td>Deborah B. Reed</td>
<td>associate professor</td>
<td>Ph.D.</td>
<td>Kentucky</td>
<td>1996</td>
</tr>
<tr>
<td>Carol Riker</td>
<td>associate professor</td>
<td>M.S.N.</td>
<td>Kentucky</td>
<td>1974</td>
</tr>
<tr>
<td>Kay Robison</td>
<td>associate professor</td>
<td>Pharm.D.</td>
<td>Alabama-Birmingham, 1995</td>
<td></td>
</tr>
<tr>
<td>Graham D. Rowles</td>
<td>professor</td>
<td>Ph.D., Clark</td>
<td>1975</td>
<td></td>
</tr>
<tr>
<td>Barbara A. Sachs</td>
<td>professor emeritus</td>
<td>Pharm.D.</td>
<td>Wayte State, 1981</td>
<td></td>
</tr>
<tr>
<td>Kathryn Sallee</td>
<td>associate professor emeritus</td>
<td>M.S., Emory</td>
<td>1970</td>
<td></td>
</tr>
<tr>
<td>Leslie K. Scott</td>
<td>assistant professor</td>
<td>Ph.D.</td>
<td>Kentucky</td>
<td>2004</td>
</tr>
<tr>
<td>Julianna G. Sebastian</td>
<td>professor emeritus</td>
<td>Pharm.D.</td>
<td>Kentucky</td>
<td>1994</td>
</tr>
<tr>
<td>Sharon L. Sheahan</td>
<td>associate professor</td>
<td>Pharm.D.</td>
<td>Kentucky</td>
<td>1990</td>
</tr>
<tr>
<td>Gwendolyn S. Shaw</td>
<td>associate clinical professor</td>
<td>D.N.P.</td>
<td>Kentucky</td>
<td>2006</td>
</tr>
<tr>
<td>Marcia C. Stanhope</td>
<td>professor emeritus</td>
<td>D.S.N.</td>
<td>Alabama-Birmingham, 1981</td>
<td></td>
</tr>
<tr>
<td>Ruth R. Staten</td>
<td>professor</td>
<td>Ph.D.</td>
<td>Kentucky</td>
<td>1996</td>
</tr>
<tr>
<td>Elsie M. Stines</td>
<td>clinical instructor</td>
<td>M.S., Maryland</td>
<td>2000</td>
<td></td>
</tr>
<tr>
<td>Kathleen D. Wagner</td>
<td>lecturer</td>
<td>Ed.D.</td>
<td>Kentucky</td>
<td>2006</td>
</tr>
<tr>
<td>Lee Anne Walmsley</td>
<td>lecturer</td>
<td>M.S.N.</td>
<td>Kentucky</td>
<td>2003</td>
</tr>
<tr>
<td>Sherry Warden</td>
<td>associate professor</td>
<td>Ph.D.</td>
<td>Kentucky</td>
<td>1990</td>
</tr>
<tr>
<td>J. Darlene Welsh</td>
<td>assistant professor</td>
<td>Pharm.D.</td>
<td>Kentucky</td>
<td>2006</td>
</tr>
<tr>
<td>Jun Zhu</td>
<td>assistant professor</td>
<td>Ph.D.</td>
<td>Kentucky</td>
<td>2000</td>
</tr>
<tr>
<td>John P. Wilson</td>
<td>professor</td>
<td>Ph.D., Michigan</td>
<td>1977</td>
<td></td>
</tr>
<tr>
<td>Louise Zegeer</td>
<td>professor emeritus</td>
<td>M.S.N., Case Western Reserve</td>
<td>1959</td>
<td></td>
</tr>
<tr>
<td>Judy Zielke</td>
<td>clinical instructor</td>
<td>M.S.N., Bellarmine</td>
<td>1991</td>
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<td>* joint appointment</td>
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</table>

**COLLEGE OF PHARMACY**

Kenneth B. Roberts, dean

Aimee R. Adams, associate adjunct professor, Pharm.D., Cincinnati, 1991
Val R. Adams, associate professor, Pharm.D., Texas-San Antonio, 1993
Paige S. Akers, assistant voluntary professor, Pharm.D., Tennessee-Memphis, 1995
Wendell Scott Akers, associate professor, Pharm.D., Tennessee, 1991; Ph.D., Kentucky, 1998
Abeer Alghananeem, research assistant professor, Ph.D., Kentucky, 1999
Ann B. Amerson, professor, Pharm.D., Kentucky, 1971
Bradley D. Anderson, professor, Ph.D., Kansas, 1978
Heidi M. Anderson, professor, Ph.D., Purdue, 1986
John A. Armitstead, associate clinical professor, M.S., Ohio State, 1982
Esther P. Black, assistant professor, Ph.D., Florida, 1997
Robert A. Blouin, professor emeritus, Pharm.D., Kentucky, 1978
Karen Blumschein, associate professor, Pharm.D., Kentucky, 1991
Sheila Botts, associate professor, Pharm.D., Kentucky, 1993
Paul M. Bummer, associate professor, Ph.D., Wisconsin, 1987
Jan Buss, professor, Ph.D., California, 1983
John Butler, professor, Ph.D., Cornell, 1982
Timothy M. Clifford, assistant adjunct professor, Pharm.D., Pennsylvania, 1998
Peter P. Colton, * associate professor, J.D., Kentucky, 1993
Aaron M. Cook, assistant adjunct professor, Pharm.D., Kentucky, 2000
Peter A. Crooks, professor, Ph.D., Manchester, England, 1970
Sylvia Daunert, ** associate professor, Ph.D., Barcelona, Spain, 1991
George A. Davis, associate voluntary professor, Pharm.D., Arkansas-Little Rock, 1993
Patrick P. DeLuca, professor, Ph.D., Temple, 1962
Marcos De Oliveira, assistant professor, Ph.D., Purdue, 1993
George A. Digens, professor emeritus, Ph.D., Wisconsin, 1964
Lewis W. Dittert, professor emeritus, Ph.D., Wisconsin, 1961
Holly Divine, associate clinical professor, Pharm.D., Kentucky, 1998
Michael A. Doukas, ** associate professor, M.D., Maryland, 1976
Steven Dunn, assistant adjunct professor, Pharm.D., VCU, 2003
Linda P. Dwoskin, professor, Ph.D., Minnesota, 1983
Joseph L. Fink III, professor, J.D., Georgetown, 1973
Jeremy Flynn, assistant adjunct professor, Pharm.D., Kentucky, 1999
Thomas S. Foster, professor, Pharm.D., Kentucky, 1973
Mary L. Gora-Harper, voluntary associate professor, Pharm.D., Purdue, 1987
Gregory A. Graf, assistant professor, Ph.D., Kentucky, 2000
Dwaine K. Green, assistant adjunct professor, B.S., Kentucky, 1971
Kimberly B. Hite, assistant adjunct professor, M.S., Ohio State, 1989
Georgette Howard, associate professor, Ph.D., Louisville, 1986
Anwar A. Hussain, associate professor, Pharm.D., Kentucky, 1980
Carrie Johnson, assistant clinical professor, Pharm.D., Kentucky, 1997
Jill Johnson, assistant clinical professor, Pharm.D., Tennessee, 1998
Wendy Johnson-Deitemeyer, clinical assistant professor, Pharm.D., 2002
Mandy Jones, clinical assistant professor, Pharm.D., Florida, 2002
Mikael Jones, clinical assistant professor, Pharm.D., Kentucky, 2002
Kyung Bo Kim, assistant professor, Ohio State, 1997
Ken Kirsh, assistant professor, Ph.D., IUPUI, 2001
Jimmi C. Kolpeck-Hatton, associate professor, Pharm.D., Kentucky, 1984
Milton J. Korbet, associate professor emeritus, Ph.D., Illinois, 1992
Harry B. Kostembait, professor emeritus, Ph.D., Wisconsin, 1956
Robert J. Kuhn, professor, Pharm.D., Texas at Austin, 1984
Matthew T. Lane, associate clinical professor, Pharm.D., Kentucky, 1993
Markos Leggas, assistant professor, Ph.D., Tennessee, 2004
Charles T. Lesshaft Jr., professor emeritus, Ph.D., Purdue, 1955
Daniel A. Lewis, assistant adjunct professor, Pharm.D., Duquesne, 1999
Tonglei Li, assistant professor, Ph.D., Purdue, 1999
Susanne Liewer, assistant adjunct professor, Pharm.D., Nebraska, 2001
Elizabeth Lin, lecturer, Ph.D., Kentucky, 2001
Robert A. Lodder, associate professor, Ph.D., Indiana, 1988
Charles Loflin, assistant professor, Ph.D., North Carolina, 1995
William C. Lubawy, professor, Ph.D., Ohio State, 1972
Hsin-Hsiung Tai, professor, Pharm.D., Kentucky, 1970
Kimberly Nixon, assistant professor, Ph.D., Texas, 2000
Margaret Nowak-Rapp, associate clinical professor, Pharm.D., SUNY at Buffalo, 1973
Robert S. Oakley, ** assistant professor, M.S., Kentucky, 1982
Kalpama Paudel, research assistant professor, Ph.D., Toyo Medical and Pharmaceutical University, 1999
James Pauli, associate professor, Ph.D., Marquette, 1986
Donald G. Perrier, professor, Ph.D., SUNY at Buffalo, 1973
Mary W. Pascik, associate professor, Ph.D., Ohio State, 1978
John J. Piecoro Jr., professor, Pharm.D., Kentucky, 1978
Anne Policastro, assistant clinical professor, Pharm.D., Kentucky, 1982
Todd D. Porter, associate professor, Ph.D., Illinois, 1981
Robert P. Rapp, professor, Pharm.D., Kentucky, 1978
Kenneth E. Record, associate professor, Pharm.D., Kentucky, 1978
Patricia Rippetoe-Freeman, lecturer, Ph.D., Kentucky, 1991
Kenneth B. Roberts, professor, Ph.D., Mississippi, 1977
Jürgen Rohr, professor, Ph.D., Georg-August-Universität Göttingen, Germany, 1984
Frank Romanelli, associate professor, Pharm.D., Kentucky, 1996
Melody Ryan, associate professor, Pharm.D., Kentucky, 1993
Vinod P. Shah, adjunct professor, Ph.D., California, 1964
Harry A. Smith, professor emeritus, Ph.D., Purdue, 1959
Kelly M. Smith, associate professor, Pharm.D., Georgia, 1993
Douglas Steinke, assistant professor, Ph.D., University of Dundee, 2001
Audra L. Stinchcomb, assistant professor, Ph.D., Michigan, 1995
Terry Stouch, adjunct associate professor, Ph.D., Pennsylvania, 1985
Stephanie Suphin, assistant adjunct professor, Pharm.D., Kentucky, 1995
Joseph V. Swintosky, professor, dean emeritus, Ph.D., Wisconsin, 1948
Hsin-Hsung Tai, professor, Pharm.D., Wisconsin, 1970
Jeff Talbert, associate professor, Ph.D., Texas A&M, 1995
Deborah B. Thorn, adjunct associate professor, Pharm.D., Maryland, 1996
John M. Tiggelaar, ** assistant professor, Pharm.D., Kentucky, 1980
David S. Watt, ** professor, Ph.D., Harvard, 1972
Peter J. Wedlund, associate professor, Ph.D., Washington, 1981
Daniel P. Wermeling, associate professor, Pharm.D., Kentucky, 1983
H. Jean C. Wiese, ** associate professor, Ph.D., North Carolina, 1971
Shane Winstead, assistant adjunct professor, B.S., Arkansas-Little Rock, 1998
Tian-Xiang Xiang, professor, Ph.D., Utah, 1986
Robert A. Yokel, professor, Ph.D., Minnesota, 1973
Chang-Guo Zhan, associate professor, Ph.D., Notre Dame, 1998
Guangrong Zheng, research assistant professor, Ph.D., Shanghai Institute of Materia Medica, 2000
Jun Zhu, research assistant professor, Ph.D., Fukui Medical University, 1998

* part-time
** joint appointment

**COLLEGE OF PUBLIC HEALTH**

Stephen W. Wyatt, dean

Linda Alexander, associate professor, Ed.D., Virginia, 1985
Pamela Hope Allweiss, assistant professor, M.D., Chicago State, 1978
Mary Anglin, * associate professor, Ph.D., New School for Social Research, 1990
Chihe Anyaegbunam,* associate professor, Ph.D., Iowa, 1994
Oscar Aravelo,* assistant professor, Sc.D., Boston, 1997
Katharine A. Atwood, assistant professor (part-time), Sc.D., Harvard, 1998
Andrea P. Baron, assistant professor, Ph.D., Case Western Reserve, 1999
Mark Bowman, assistant professor (part-time), M.H.A., Kentucky, 1994
Adam Branscum, assistant professor, Ph.D., California-Davis, 2005
Gail Brion,* assistant professor, Ph.D., Colorado, 1995
Steven R. Browning, assistant professor, Ph.D., North Carolina, 1994
Terry Bunn, assistant professor, Ph.D., Cornell, 2001
Heather Bush, assistant professor, Ph.D., Kentucky, 2006
Glyn Caldwell, assistant professor (part-time), M.D., Missouri at Columbia, 1971
Cragi Carter,* professor, Ph.D., Texas A&M, 1993
Richard J. Chermog, assistant professor, Ph.D., Case Western, 2003
Amit Chattopadhyay, assistant professor, Ph.D., North Carolina, 2003
Richard R. Clayton, professor, Ph.D., Florida, 1972
Joseph Coniglario,* associate professor, M.D., Harvard, 1987
Julia F. Cotich, assistant professor, J.D., Kentucky, 1993
Richard A. Crosby, professor, Ph.D., Indiana, 1998
Philip R. Curd, assistant professor (part-time), M.D., Kentucky, 1969
Deborah D. Danner, assistant professor, Ph.D., Kentucky, 1993
Paul Dassow,* assistant professor, M.D., Washington, 1990
Mark Dignan,* professor, Ph.D., Pennsylvania, 1977
Larry Figs, associate professor, Ph.D., Louisville, 1983
Steven T. Fleming, associate professor, Ph.D., Michigan, 1989
Ray F. Garman, associate professor, M.D., George Washington, 1961
Charles H. Griffith,* professor, M.D., Vanderbilt, 1988
Rodney Guttmann, associate professor, Ph.D., Alabama at Birmingham, 1998
Ellen J. Hahn,* professor, D.N.S., Indiana, 1992
Lynne H. Hall,* professor, Dr.P.H., North Carolina, 1983
Nancy Harrington,* associate professor, Ph.D., Kentucky, 1992
Ray Hill, assistant professor (part-time), Dr.P.H., Kentucky, 2005
James Holsinger Jr., professor, Ph.D., Duke, 1968
Claudia Maria Hopenhayn, associate professor, Ph.D., California-Berkeley, 1996
Carol Ireson, associate professor (part-time), Ph.D., Kentucky, 1995
Joy M. Jacobs, assistant professor, Ph.D., Oklahoma State, 2003
Peace Jessa, assistant professor, D.O., West Virginia School of Osteopathic Medicine, 2002
Jeffery A. Jones, assistant professor, Ph.D., Kentucky
Sumner Kad, assistant professor (part-time), M.B.R.S., Punjab University, 1974
Evelyn A. Knight, associate professor, Ph.D., Maryland
R. Steven Konkel, assistant professor (part-time), Ph.D., MIT, 1991
Richard J. Kryscio,* professor, Ph.D., SUNY at Buffalo, 1971
Joel M. Lee, professor, Dr. P.H., Texas, 1979
Kiyoun Lee, assistant professor, Sc.D., Harvard, 1993
Carl Leukefeld,* professor, D.S.W., Catholic University of America, 1975
Youcheng Liu, assistant professor, Sc.D., Harvard, 1997
Margaret Miller Love,* assistant professor, Ph.D., Minnesota, 1988
David Mannino, associate professor, M.D., Thomas Jefferson University, 1981
Robert H. McKnight, associate professor, Sc.D., Johns Hopkins, 1984
Marta Mendoza, assistant professor, Ph.D., Kentucky
Kim Miller,* assistant professor, Ph.D., Southern Illinois-Carbondale, 2000
Gregory Moore,* associate professor, M.D., Uniformed Services University of the Health Sciences, 1983
Melody Noland,* professor, Ph.D., Maryland, 1981
Kevin A. Pearse,* professor, M.D., Florida, 1983
Barbara A. Phillips,* professor, M.D., Kentucky, 1977
Susan Pollock,* assistant professor, M.D., East Virginia, 1984
Timothy Scott Prince, associate professor, M.D., Emory, 1986
Ted P. Raybould,* professor, M.D.M., Kentucky, 1981; G.P.R., Kentucky, 1985
Mary K. Rayens,* associate professor, Ph.D., Kentucky, 1993
Deborah B. Reed,* professor, Ph.D., Kentucky, 1996
Carol Rice, assistant professor (part-time), Ph.D., North Carolina-Chapel Hill, 1983
Kathryn Perez Riley, associate professor (part-time), Ph.D., Case Western Reserve, 1984
Mark Swanson, assistant professor, Ph.D., Florida, 2001
Pamela Teaster, associate professor, Ph.D., Virginia Polytechnic Institute, 1997
Thomas C. Tucker, associate professor, M.P.H., Michigan, 1982; Ph.D., Kentucky, 2001
Robin Vanderpool, assistant professor, Dr.P.H., Kentucky, 2006
John Watkins, associate professor, Ph.D., Colorado, 1986
Karen P. West,* professor, D.M.D., Louisville, 1982; G.P.R. Cert., Georgia, 1983
Stephen W. Wyatt, associate professor, D.M.D., Kentucky, 1980
Faika Zangi, assistant professor, Ph.D., Pennsylvania State University, 2004

COLLEGE OF SOCIAL WORK
Kay S. Hoffman, dean
Glenn Abraham,* instructor, M.S.W., Kentucky, 1981
Doug Adams,* instructor, M.S.W., Louisville, 1994
Dale Albers,* visiting professor, Sociology, Ph.D., Utah, 1972
Janice Austin,* instructor, M.S.W., Kentucky, 1995
Karen S. Badger, associate professor, Ph.D., Kentucky, 2006
Carol J. Barnett,* instructor, M.S.W., Kentucky, 1984
April Bruce,* instructor, M.S.W., Kentucky, 1992
Valerie Bryan,* instructor, M.S.W., Kentucky, 1998
Julie, Cerel, associate professor, Ph.D., Ohio State, 2001
Barbara Chamberlin,* instructor, M.S.W., Ohio State, 1979
David C. Christiansen,* instructor, M.S.W., UCLA, 1984
James C. Clark, Associate Dean for Research, Ph.D., Chicago, 1996
Cynthia Cole,* instructor, M.S.W., Kentucky, 2003
Crystal Collins-Camargo, clinical assistant professor, Ph.D., Kentucky, 2005
Patricia Cook, associate professor, Ph.D., North Carolina, 2006
Carlton Craig, associate professor, Ph.D., North Carolina, 2003
Melissa Davidson,* instructor, M.S.W., Kentucky, 2004
Diane Doss,* instructor, M.S.W., Kentucky, 1976
Janet Doss,* instructor, M.S.W., Louisville, 1998
Gretchen Ely, associate professor, Ph.D., Tennessee, Knoxville, 2003
Nancy Erwin,* instructor, Ph.D., Kentucky, 1980
Julie Evans,* instructor, M.S.W., Kentucky, 1989
Tori Faragher,* instructor, M.S.W., Kentucky, 1994
Samuel Faulkner,* instructor, Ph.D., Texas at Arlington, 2001
Chris Fialherty, associate professor, Ph.D., Tennessee, Knoxville, 2001
Janet P. Ford, associate professor, Ph.D., Case Western Reserve, 1986
Lynn Geurin, clinical faculty, M.S.W., Kentucky, 1994
Marion Gildersleeve,* instructor, M.S.W., Kentucky, 1989
Theodore M. Godlask,* instructor, M.Div., St. Mary’s Theological Seminary, 1972
Chris Gryzwacz,* instructor, M.S.W., South Carolina, 1989
Jennifer Hall,* instructor, M.S.W., Kentucky, 1999
Brandy Hambly,* instructor, M.S.W., Kentucky, 1999
Arthur Hayden,* instructor, Ph.D., Louisville, 2004
Margaret Hazlette,* instructor, M.S.W., Kentucky, 1991
Latomia Hesterberg, clinical faculty, Ph.D., Kentucky, 2005
Kay S. Hoffman, professor & Dean, Ph.D., Wayne State, 1979
Stephanie Hong,* instructor, M.S.W., Eastern Kentucky, 1990
Vanessa Hunn,* instructor, Ph.D., Kentucky, 2006
Blake L. Jones,* instructor, M.S.W., Kentucky, 1995
Carolee Kamlager,* instructor, Kentucky, 1980
Jill Keogh, clinical faculty, M.S.W., California State University Sacramento, 1993
Kay Kile,* instructor, M.S.W., Kentucky, 1978
Genesia Kilgore-Bowling,* instructor, M.S.W., Kentucky, 2003
Florence M. Lankster,* instructor, M.S.W., Kentucky, 1978
Lori Lazzari,* instructor, M.S.W., Kentucky, 1993; J.D., Kentucky, 1990
Phyllis Leigh,* instructor, M.S.W., Kentucky, 1998
Ted A. Marshall,* associate professor, M.S.W., Kentucky, 1973
Christine McFalls,* instructor, M.S.W., Kentucky, 1997
Beth Mills, clinical faculty, M.S.W., Kentucky, 1995
Barbara Mulligan,* instructor, M.S.W., Kentucky, 1990
Melanie D. Otis, associate professor, Ph.D., Kentucky, 1999
Robin Pease,* instructor, Ph.D., Sociology, Kentucky, 2001
Patricia Plummer,* instructor, M.S.W., Kentucky, 2000
Caroline Reid,* instructor, M.S.W., Kentucky, 1993
Deirdra L. Robinson, clinical faculty, M.S.W., Kentucky, 1994
Elizabeth L. Rompf, associate professor, Ph.D., Kentucky, 1989
David D. Royse, assistant professor, Ph.D., SUNY at Buffalo, 1971
Karen P. West,* professor, D.M.D., Louisville, 1982; G.P.R. Cert., Georgia, 1983
Stephen W. Wyatt, associate professor, D.M.D., Kentucky, 1980
Faika Zangi, assistant professor, Ph.D., Pennsylvania State University, 2004

*joint appointment
Nathan R. Sullivan, associate professor, M.S.W., Kentucky, 1972
Richard D. Sutphen, associate professor, Ph.D., Georgia, 1993
Jennifer Swanberg, associate professor, Ph.D., Brandeis, 1997
Michelle Tindall, assistant professor, Ph.D., Kentucky, 2004
Lanee Velkamp, professor, M.S.W., Michigan State, 1964
Pamela L. Weeks, clinical assistant professor, J.D., Kentucky, 1989
Richard J. Welsh, ** professor, M.S.W., Iowa, 1966
Larry W. Whorley, * instructor, D.S.W., Maryland, 1978
Vernon Wiehe, * instructor, Ph.D., Washington University, St. Louis, 1972
Suzanne Zimmerman, * instructor, M.S.W., Cincinnati, 1985

*part-time

**UK College of Medicine

THE GRADUATE SCHOOL

Jeannine Blackwell, dean

JAMES W. MARTIN SCHOOL OF PUBLIC POLICY AND ADMINISTRATION

Edward T. Jennings, Jr., director

Philip K. Berger, professor emeritus, Ph.D., Texas, Christian, 1969
Jack Blanton, * associate professor, Ed.D., Kentucky
Glenn C. Blomquist, * endowed chair, Ph.D., Chicago, 1977
Karen Blumenschein, * associate professor, Ph.D., Kentucky, 1991
Gail Brion, * associate professor, Ph.D., Colorado, 1995
J.S. Butler, * professor, Ph.D., Cornell, 1982
Dwight Denison, associate professor, Ph.D., Kentucky, 1997
Joseph L. Fink III, * professor, J.D., Georgetown, 1973
Richard C. Fording, * associate professor, Ph.D., Florida State, 1997
Donald Gross, * professor, Ph.D., Iowa, 1976
Merlin L. Hackbart, * professor, Ph.D., Kansas State, 1968
Greg Hager, ** adjunct professor, Ph.D., North Carolina-Chapel Hill, 1995
Leonard Heller, ** professor, Ed.D., Kansas, 1972
William Hoyt, * professor, Ph.D., Wisconsin, 1986
Edward T. Jennings, Jr., professor, Ph.D., Washington, 1977
Seok-Woo Kwon, assistant professor, Ph.D., University of Southern California, 2003
Joel Lee, * professor, Dr.P.H., University of Texas School of Public Health-Houston, 1979
Sylvia Lovely, ** adjunct professor, J.D., Kentucky
Earl J. Motzer, ** associate professor, Ph.D., Walden, 1986
David P. Nau, * associate professor, Ph.D., Florida, 1997
Tokunbo Oluwole, assistant professor, Ph.D., Pennsylvania State University, 2007
Mark Peffley, * professor, Ph.D., Minnesota, 1984
Donald Perrier, * professor, Ph.D., SUNY at Buffalo, 1973
Douglas T. Steinke, * assistant professor, University of Dundee, 2001
Jeffrey C. Talbert, ** associate professor, Texas A&M, 1995
Eugenia F. Toma, endowed chair, Ph.D., Virginia Polytechnic Institute, 1977
Sarah Walkerbarth, associate professor, Ph.D., Wisconsin, 1997
Richard Waterman, * professor, Ph.D., Houston, 1986
David Wildasin, endowed chair, Ph.D., Iowa, 1976
Virginia C. Wilson, ** professor, Ph.D., Kentucky, 1993
Aaron Yelowitz, * associate professor, Massachusetts Institute of Technology, 1994

*joint appointment

**adjunct appointment

GERONTOLOGY

Graham D. Rowles, director
David T. R. Berry, * professor, Ph.D., Florida, 1985
Lee X. Blonder, * associate professor, Ph.D., Pennsylvania, 1986
Subbarao Bondada, * professor, Ph.D., Bombay, 1976
Maria G. Boosalis, * associate professor, Ph.D., Minnesota, 1984
Linda H. Chen, * professor, Ph.D., Louisville, 1964
Deborah D. Dunne, * research assistant professor, Ph.D., Kentucky, 1993
Surjit Singh Dhooper, * professor, Ph.D., Case Western Reserve, 1982
Thomas F. Garrity, * professor, Ph.D., Duke, 1971
James W. Geddes, * associate professor, Ph.D., University of Saskatchewan, 1984
Roderick Guttmann, assistant professor, Ph.D., Alabama at Birmingham, 1998
Anne L. Harrison, * associate professor, Ph.D., Kentucky, 2002
Laurie R. Hatch, * associate professor, Ph.D., Washington, 1986
Joy M. Jacobs-Lawson, assistant professor, Ph.D., Oklahoma State, 2003
Yang Jiang, assistant professor, Ph.D., Miami University, 1995
Jeff N. Keller, * associate professor, Ph.D., Kentucky, 1998
Hyungsoo Kim, associate professor, Ph.D., Kyotou University, Japan, 2000
L. Creed Pettigrew, * associate professor, M.D., Texas at Galveston, 1980

Graham D. Rowles, professor, Ph.D., Clark, 1976
Stephen W. Scheff, * professor, Ph.D., Missouri, 1974
Frederick A. Schmitt, * professor, Ph.D., Akron, 1982
Nancy E. Schoenberg, * associate professor, Ph.D., Florida, 1994
Mitzi M. Schumacher, * associate professor, Ph.D., Ohio, 1986
Sharon L. Sheahan, * associate professor, Ph.D., Kentucky, 1990
Charles D. Smith, * associate professor, M.D., Tulane, 1979
Michael Smith, * adjunct assistant professor, Ph.D., Loyola, 1978
David A. Snowdon, * professor, Ph.D., Minnesota, 1981
Nikiforos Stamatisdis, * professor, Ph.D., Michigan State, 1990
Joseph Stemple, professor, Ph.D., Cincinnati, 1977
Nancy J. Stiles, * associate professor, M.D., Texas, 1986
Thornburn Brock Symons, assistant professor, Ph.D., University of Western Ontario, Canada, 2003
Pamela Teaster, associate professor, Ph.D., Virginia Polytechnic Institute, 1997
John van Willigen, * professor, Ph.D., Arizona, 1971
Sarah Wackerbarth, * associate professor, Ph.D., Wisconsin, 1997
John F. Watkins, associate professor, Ph.D., Colorado, 1986
David R. Weckstein, * professor, Ph.D., Rochester, 1962
Faika Zanjani, assistant professor, Ph.D., Penn State, 2004

NUTRITIONAL SCIENCES

Core Faculty

Lisa Cassis, professor, Ph.D., West Virginia, 1984
Linda Chen, professor, Ph.D., Louisville, 1964
Ching Chow, professor, Ph.D., Illinois, 1969
Howard Glauert, professor, Ph.D., Michigan State, 1982
Catherine Mao, assistant professor, Ph.D., University of Paris, 1990
Jinhua Shao, assistant professor M.D., Ph.D., Peking University, 1998
Shuxia Wang, assistant professor, M.D., Peking Union Medical 1997

Joint Faculty

Kwaku Addo, associate professor, Washington State, 1990
Kenneth Ain, professor, M.D., Brown, 1981
James W. Anderson, professor, M.D., Northwestern, 1958
Douglas Archbold, professor, Ph.D., Michigan State, 1982
Gilbert Boissonneault, professor, Ph.D., Illinois, 1982
James Boling, professor, Ph.D., Wisconsin, 1967
Maria Boosalis, associate professor., Ph.D., RD, Minnesota, 1984
Geza Bruckner, professor, Ph.D., Kentucky, 1979
Dennis Bruemmer, assistant professor, M.D., University of Hamburg, 1998
Austin Cantor, associate professor, Ph.D., Cornell, 1974
Jody Clasey, associate professor, Ph.D., Virginia, 1997
Alan Daugherty, professor, Ph.D., Bath, 1981
Frederick de Beer, professor, M.D., South Africa, 1983
Maria de Beer, associate professor, Ph.D., Stellenbosch, 1992
Willem de Villiers, professor, Ph.D., Oxford, 1995
Nympha D Souza, assistant professor, Ph.D., Hoffkin Institute, Bombay, 1985
Hazel Fosythe, associate professor, Ph.D., Oklahoma State, 1987
Ming Cui Gong, associate professor, Ph.D., Peking Union Medical College, 1994
Ramesh Gupta, professor, Ph.D., Roorkee, India, 1972
Bernhard Hennig, professor, Ph.D., R.D., Iowa State, 1982
David Hildebrand, professor, Ph.D., Illinois, 1982
Laure Humphries, professor, M.D., Emory, 1973
Dennis Karounos, associate professor, M.D., Kentucky, 1980
Edward Kasarskis, Jr., professor, Ph.D., Wisconsin, 1975
Thoma Kelly, professor, Ph.D., Minnesota, 1983
Victoria King, assistant professor, Ph.D., Kentucky, 1989
Terry Lennie, associate professor, Ph.D., R.N., FAHA, Wisconsin-Madison, 1993
Guo-Min Li, associate professor, Ph.D., Wayne State, 1991
Merlin Lindemann, professor, Ph.D., Minnesota, 1981
Robert Lodder, professor, Ph.D., Indiana, 1988
James Matthews, associate professor, Ph.D., Virginia Tech, 1995
Sabire Ozcan, assistant professor, Ph.D., Dusseldorf, 1993
Bin Tao Pan, associate professor, Ph.D., Taiwan University, 1983
Todd Porter, associate professor, Ph.D., McGill, 1983
Steven Post, associate professor, Ph.D., Chicago, 1989
Eric Smart, professor, Ph.D., Wisconsin-Madison, 1992
Brett Spear, professor, Ph.D., Pennsylvania, 1985
Daret St. Clair, professor, Ph.D., Iowa, 1984
William St. Clair, assistant professor, M.D., Ph.D., Iowa, 1984
Lisa Tannock, assistant professor, M.D., Toronto, 1994
Michal Taborak, professor, M.D., Silesian School of Medicine, 1989
Denys Van der Westhuyzen, professor, Ph.D., Cape Town, 1974

University Faculty 399
Nancy Webb, associate professor, Ph.D., Kentucky, 1999
Trevor Winter, associate professor, M.D., Ph.D., 2001
Youling Xiong, professor, Ph.D., Washington State, 1989
James Yates, associate professor, Ph.D., Penn State, 1980
Haining Zhu, assistant professor, Ph.D., UCLA, 2000

GRADUATE CENTER FOR BIOMEDICAL ENGINEERING
David Puleo, director
Kimberly Ward Anderson,* professor, Ph.D., Carnegie-Mellon, 1986
Eugene Bruce, professor, Ph.D., Southern California, 1973
Dayong Gao,* professor, Ph.D., Concordia-McGill, 1991
Peter Hardy, assistant research professor, Ph.D., Toronto, 1991
Charles F. Knapp, professor emeritus, Ph.D., Notre Dame, 1968
Stephen Lai-Fook, professor, Ph.D., Washington, 1972
Abhijit Patwardhan, associate professor, Ph.D., Kentucky, 1992
David Pienkowski, associate professor, Ph.D., Pennsylvania, 1982
David Puleo, professor, Ph.D., Rensselaer Polytechnic, 1991
David Randall,* professor, Ph.D., Washington, 1972
Keith Rouch,* professor, Ph.D., Marquette, 1978
Maurice Sanders, assistant professor, Ph.D., Akron, 1998
Robert Shapiro,* professor, Ph.D., Illinois at Urbana, 1979
Betty F. Sisk, research professor emeritus, Ph.D., Kentucky, 1973
Charles Smith,* assistant professor, M.D., Tulane, 1979
Janet Walker,* associate professor, M.D., South Florida, 1981

*joint appointment

GRADUATE CENTER FOR TOXICOLOGY
Mary Vore, director
Subbarao Bondada,* professor, Ph.D., University of Bombay, 1976
Scott Bryson,* professor, Ph.D., Miami, 1985
Lisa Cassis,* professor, Ph.D., West Virginia, 1984
Ching K. Chow,* professor, Ph.D., Illinois, 1959
Donald A. Cohen,* professor, Ph.D., Cincinnati, 1979
Peter A. Crooks,* professor, Ph.D., University of Manchester, England, 1970
Alan Daugherthy,* professor, Ph.D., University of Bath, UK, 1981
Greg Davis,* professor, Ph.D., Tennessee, 1985
John D’Orazio,* assistant professor, M.D./Ph.D., Miami, 1996
Linda Dwoskin,* professor, Ph.D., Syracuse, 1983
James W. Flesher,* professor, Ph.D., Loyola, 1958
Gary Gairola, research professor, Ph.D., Illinois, 1969
Ning Gao, research assistant professor, Ph.D., China, 1990
Howard P. Glaeser,* professor, Ph.D., Michigan State, 1982
Liya Gu, assistant professor, Ph.D., Wayne State, 1992
Bernhard Hennig,* professor, Ph.D., Iowa, 1982
John C. Hunsaker III,* professor, M.D., Kentucky, 1977
Darrell Jennings,* professor, M.D., Kentucky, 1977
Tae Ji,* professor, Ph.D., California-San Diego, 1968
Davy Jones, professor, Ph.D., California-Davis, 1982
Alan M. Kaplan,* professor, Ph.D., Purdue, 1969
Edward J. Kasarskis, Jr.,* professor, M.D./Ph.D., Wisconsin, 1974
Natalie Kyrianniou,* professor, Ph.D., University of Wales, United Kingdom, 1986
Eun Lee,* professor, Ph.D., Kyung Hee Medical School, 1978
Kiyoung Lee,* assistant professor, Ph.D., Harvard, 1993
Guo-Min Li, professor, Ph.D., Wayne State, 1991
Charles Loftin,* assistant professor, Ph.D., UNC-Chapel Hill, 1995
Bert Lynn,* professor, Ph.D., Mississippi State, 1987
William F. Maragos,* associate professor, M.D./Ph.D., Northwestern, 1988
Joseph McGillis,* associate professor, Ph.D., George Washington, 1985
Patrick McNamara,* professor, New York State at Buffalo, 1979
Isabel Mellon,* associate professor, Ph.D., Illinois, 1984
Jeffrey Moscow,* associate professor, M.D., Dartmouth, 1982
Dan Noonan,* professor, Ph.D., Texas, 1980
Peter R. Oeltgen,* professor, Ph.D., Loyola, 1973
David Oren, associate professor, Ph.D., North Carolina, 1991
Subba Palli,* associate professor, Ph.D., Western Ontario University, 1988
Brent Palmer,* associate professor, Ph.D., Florida, 1990
Ok-Kyong Park-Sarge,* associate professor, Ph.D., Illinois, 1989
Creed Pettigrew,* professor, M.D., Texas, 1980
Andrew Pierce,* assistant professor, Ph.D., North Carolina, 1995
Todd Porter,* associate professor, Ph.D., Illinois, 1991
Vivek Rangnekar,* professor, Ph.D., University of Bombay, 1983
Kevin Sarge,* professor, Ph.D., North Carolina State, 1989
Steven I. Shedlosky,* professor, M.D., Michigan, 1974
Xianglin Shi, professor, Ph.D., West Virginia, 1988
John Slevin,* professor, M.D./Ph.D., Maryland, 1962
Brett T. Spear,* professor, Ph.D., Pennsylvania, 1985

Peter Spielmann,* associate professor, Ph.D., California-Berkeley, 1991
Daret St. Clair, professor, Ph.D., Iowa, 1984
Hollie Swanson,* associate professor, Ph.D., Purdue, 1991
Thomas Toon,* professor, D.V.M., Dublin, 1964; Ph.D., Toronto, 1969
Mary Vore, professor, Ph.D., Vanderbilt, 1972
Zhigang Wang, professor, Ph.D., Texas, 1989
Peter Wedlund,* associate professor, Ph.D., Washington, 1981
Hsin-Sheng Yang, assistant professor, Ph.D., Arizona State, 1994
Robert A. Yokel,* professor, Ph.D., Minnesota, 1973
Hong-Bo Zhao,* associate professor, M.D./Ph.D., China, 1992
Haining Zhu,* assistant professor, Ph.D., UCLA, 2000

*joint appointment

PATTERSON SCHOOL OF DIPLOMACY AND INTERNATIONAL COMMERCE
Ambassador Carey Cavanaugh, director

Carey Cavanaugh, professor
Robert Farley, assistant professor
Evan Hillebrand, associate professor
Harry Mason, adjunct professor
Thomas A. McGinty, senior executive in residence
Karen Mingst, Lockwood Chair professor
John Stempel, senior professor
Cliff Tsuboi, adjunct professor

Associated Faculty
James C. Albisetti, Department of History
Horace Bartlow, Department of Political Science
Douglas A. Boyd, College of Communications
Stanley Brunn, Department of Geography
Francie Chassen-Lopez, Department of History
I. K. Chew, Department of Finance
Robert Dahlstrom, Department of Marketing
Charles Davis, Department of Political Science
James Donnelly, Department of Marketing
Wally Ferrier, School of Management
Richard Giff, Department of Economics
A. L. Goldman, College of Law
Gordon Holbein, School of Management
P. P. Karan, Department of Geography
Mark Kightinger, College of Law
Joachim M. Knuf, Department of Communications
Thomas Leinbach, Department of Geography
David Moore, College of Law
Donald Mullineaux, Department of Finance
Robert Olson, Department of History
Angelos Pagoulatos, Department of Agricultural Economics
Joe Peck, Department of Economics
Karen Petrone, Department of History
Michael Reed, Department of Agricultural Economics
Susan Roberts, Department of Geography
Frank A. Scott, Department of Economics
Jerry R. Skees, Department of Agricultural Economics
Kristin Stapleton, Department of History
John VanWilligen, Department of Anthropology
Steve Vasek, College of Law

HONORS PROGRAM
James C. Albisetti, professor, Ph.D., Yale, 1976
Rayna Beal, associate professor, Ed.D., Cincinnati, 1985
Suketu Bhavsar, professor, Ph.D., Princeton, 1978
Lisa Ciggett, associate professor, Ph.D., Indiana, 1997
Frank Ettensohn, professor, Ph.D., Illinois, 1975
Abigail A. Firey, assistant professor, Ph.D., Toronto, 1995
James Force, professor, Ph.D., Washington, 1977
Walter C. Foreman, associate professor, Ph.D., Washington, 1974
Jonathan Glixon, associate professor, Ph.D., Princeton, 1979
Sanford Goldberg, associate professor, Ph.D., Columbia, 1995
Larry Grabau, professor, Ph.D., Missouri, 1984
John Greenway, associate professor emeritus, Ph.D., Wisconsin, 1969
Alan Hersh, professor, M.D./Mus., Indiana, 1971
Jane Jensen, associate professor, Ph.D., Indiana, 1997
Monica Kern, associate professor, Ph.D., Harvard, 1987
Oliver Leaman, professor, Ph.D., Cambridge, 1979
Edward Lee, associate professor, Ph.D., Pittsburgh, 1976
Pinar Menguc, professor, Ph.D., Purdue, 1985
David M. Olster, associate professor, Ph.D., Chicago, 1985
Jeffrey Peters, associate professor, Ph.D., Michigan, 1996
Todd Pfeiffer, professor, Ph.D., Wisconsin-Madison, 1982
Robert J. Rabel, professor, Ph.D., Michi gan, 1975
David Royse, professor, Ph.D., Ohio State, 1980
Ingrid St. Omer, assistant professor, Ph.D., Missouri-Columbia, 1996
Jennifer M. Tunberg, assistant professor, Ph.D., St. Anne’s, Oxford, 1982
Terence O. Tunberg, associate professor, Ph.D., Toronto, 1986
Monica Udvardy, associate professor, Ph.D., Uppsal a, 1990
Jane Gentry Vance, professor, Ph.D., North Carolina, 1975

**UNIVERSITY OF KENTUCKY LIBRARIES**

Carol Diedrichs, dean
Robert Aken, librarian I, M.A., Kentucky, 1979; M.S.L.S., Kentucky, 1983
Stephanie Aken, librarian I, M.S.L.S., Kentucky, 1975
Bernadette Baldini, librarian I emerita, M.S.L.S., Kentucky, 1974
James Birchfield, librarian I, Ph.D., Florida State, 1976; M.S.L.S., Florida State, 1977
Katherine J. Black, librarian I, M.S.L.S., Kentucky, 1978; M.A., Kentucky, 1996
Carl-Heinz Boewe, librarian I emeritus, Ph.D., Rice, 1969; M.A., Missouri, 1974
Lewis Bowling, librarian II emeritus, D.A., Northern Colorado, 1982; M.A.S., Iowa, 1988
Lynne Bowman, librarian I, M.S.L.S., Kentucky, 1978
Rick Brewer, librarian II, M.S.L.S., Kentucky, 1994
Jane Bryant, librarian II, M.S.L.S., Kentucky, 1984
Gillian Buckland, librarian II emerita, M.S.L.S., Kentucky, 1989
Sue Burch, librarian I emerita, M.S.L.S., Kentucky, 1982
James Burgett, librarian I, Ph.D., Minnesota, 1988; M.L.S., Kentucky, 1992
Teresa Burgett, librarian II, M.S.L.S., Kentucky, 1978
Carla Cantagallo, librarian II, M.S.L.S., Kentucky, 1988
Bradley Carrington, librarian II, M.Ln., Emory, 1985
Lisa R. Carter, librarian I, M.L.S., Michigan, 1994
Janette Carver, librarian IV, M.S.L.S., Kentucky, 1982
Cindy Clime, librarian II, M.S.L.S., Kentucky, 1987
Mary Conleton, librarian II, M.S.L.S., Tennessee, 1988
Bonnie J. Cox, librarian I emerita, M.A., Kentucky, 1969; M.S.L.S., Kentucky, 1986
Frank Davis, librarian II, M.S.L.S., Wayne State, 1988
Helene E. Davis, librarian III, J.D., Iowa, 1985; M.L.L.S., Washington, 2004
Laura Davison, librarian II, M.S.L.S., Kentucky, 1990
Carol Diedrichs, librarian I, M.L.L.S., Texas at Austin, 1981
Stacey C. Greenwell, librarian II, M.S.L.S., Kentucky, 1998
Antoinette Greider, librarian I, M.A.L.S., Kentucky, 1973
Barbara Hale, librarian I, M.S.L.S., Kentucky, 1982
Gracie Hale, librarian II, M.S.L.S., Kentucky, 1990
Thomas Hecker, librarian II, M.L.S., Pittsburgh, 1982
Tagalie Heister, librarian II, M.S.L.S., Kentucky, 1975
Beverly Hilton, librarian I, M.L.S., Maryland, 1975

Kazu ko Hioki, librarian III, M.L.L.S., Texas at Austin, 2000
Gordon Hogg, librarian I, M.L.L.S., Catholic University, 1983
Mark Ingram, librarian II, M.A., Kentucky, 1975; M.S.L.S., Kentucky, 1979
Cheryl Jones, librarian I emerita, M.S.L.S., Kentucky, 1971
Reinette Jones, librarian I, M.S.L.S., Kentucky, 1988
Roxanna Jones, librarian II, M.S.L.S., Kentucky, 1978
Gail Kennedy, librarian I, M.S.L.S., Kentucky, 1974
Elizabeth G. Kraemer, librarian II, M.L.S., Kentucky, 1998
Nancy R. Lewis, librarian II, M.S.L.S., Kentucky, 1991
Shawn D. Livingston, librarian II, M.S.L.S., Kentucky, 1993
Sandra McNainch, librarian I, M.S.L.S., North Carolina, 1973
Claire McCann, librarian I emerita, M.S.L.S., Kentucky, 1963
Mary McLaren, librarian I, M.L.S., Pittsburgh, 1969
Lillian Mesner, librarian II emerita, M.L.S., Maryland, 1970
Mary Molinaro, librarian I, M.L.S., Ball State, 1981
Karen E. Nuckolls, librarian III, M.S.L.S., Wayne State, 1974
Amy B. Osborne, librarian II, M.S.L.S., Kentucky, 1990
Valerie E. Perry, librarian II, M.S.L.S., Kentucky, 1994
Russell Powell, librarian I emeritus, M.L.S., Pittsburgh, 1966
Rebecca Ryder, librarian I, M.S.L.S., Kentucky, 1992
Judy Sackett, librarian I, M.A.L.S., Denver, 1969
Deirdre Scaggs, librarian IV, M.L.L.S. Pittsburg, 2003
Catherine Seago, librarian I, M.A., Kentucky, 1985
Marsha Seamans, librarian II, M.L.S., Indiana, 1988
Ebba Sexton, librarian II emerita, M.L.S., Kentucky, 1978
Deborah K. Sharp, librarian II, M.S.L.S., Kentucky, 1983
Margaret Shaw, librarian I, M.L.S., Kentucky, 1979
Susan K. Smith, librarian II, M.S.L.S., Pittsburgh, 1991
Charles A. Spears, librarian II emeritus, B.G.S., Kentucky, 1974
Mary Jo Staggs Neel, librarian II, M.S.L.S., Kentucky, 1994
Janet Stith, librarian I, M.S.L.S., Kentucky, 1971; M.A., West Virginia, 1971
Jeffrey S. Suchanek, librarian II, M.A., Youngstown State, 1983
Mary Beth Thomson, librarian II, M.L.L.S., Louisiana State, 1990
Mary Vaught, librarian II, M.S.L.S., Louisiana State, 1986
Sarah Vaught, librarian II, M.S.L.S., Kentucky 1982
Kelly Vickery, librarian II, M.S.L.S., Kentucky, 1998
Mary Welch, librarian I emerita, M.S.L.S., Kentucky, 1970
Paul Willis, librarian I emerita, M.L.S., Maryland, 1966; J.D., Kentucky, 1969
Patricia Wilson, librarian I, M.S.L.S., Kentucky, 1988
Lesley Wolfgang-Jackson, librarian III, M.A., Kentucky, 2000; M.S.L.S., Kentucky, 2002
Olga D. Wood, librarian II, M.S.L.S., Kentucky, 1993
BOARD OF TRUSTEES

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James F. Hardymon, Chair
JoEtta Y. Wickliffe, Vice Chair
Pamela Robinette May, Secretary
Barbara W. Jones, Assistant Secretary

Mira S. Ball
Stephen P. Branscum
Penelope A. Brown
Dermontti F. Dawson
Jeffrey B. Dembo
Ann Brand Haney
Billy Joe Miles
Sandy Bugie Patterson
Philip R. Patton
Nick Phelps (Student Government President)
Erwin Roberts
C. Frank Shoop
Myra Leigh Tobin
Billy B. Wilcoxson
Russ Williams
Ernest J. Yanarella
Barbara Smith Young

ADMINISTRATION

Lee T. Todd Jr., President

Kumble R. Subbaswamy, Provost
Frank A. Butler, Executive Vice President for Finance and Administration
Vice President for Research to be announced
Mitzi Schumacher, Chair, President’s Commission on Women
Michael Karpf, Executive Vice President for Health Affairs
President’s Commission on Diversity Chair to be announced
Angela S. Martin, Vice President for Planning, Budget and Policy Analysis
Terry B. Mobley, Vice President for Institutional Advancement
Douglas A. Boyd, Chief of Staff to the President
Connie Ray, Vice President for Institutional Research, Planning and Effectiveness

Patricia S. Terrell, Vice President for Student Affairs
Eugene R. Williams, Vice President for Information Technology
Bob Wiseman, Vice President for Facilities Management
Mitch Barnhart, Director of Athletics
Henry Clay Owen, Treasurer
Marc A. Mathews, Controller
Barbara W. Jones, General Counsel

M. Scott Smith, Dean of the College of Agriculture
Steven L. Hoch, Dean of the College of Arts and Sciences
J. David Johnson, Dean of the College of Communication and Information Studies
Sharon P. Turner, Dean of the College of Dentistry
David B. Mohney, Dean of the College of Design
James G. Cibulka, Dean of the College of Education
Thomas W. Lester, Dean of the College of Engineering
Robert Shay, Dean of the College of Fine Arts
Devanathan Sudharshan, Dean of the Gatton College of Business and Economics
Jeannine Blackwell, Dean of The Graduate School
Lori Stewart Gonzalez, Dean of the College of Health Sciences
Allan Walker Vestal, Dean of the College of Law
Carol Pitts Diedrichs, Dean of Libraries
Jay A. Perman, Dean of the College of Medicine and Vice President for Clinical Affairs
Jane Marie Kirschling, Dean of the College of Nursing
Kenneth B. Roberts, Dean of the College of Pharmacy
Stephen W. Wyatt, Dean of the College of Public Health
Kay S. Hoffman, Dean of the College of Social Work

Joe Claypool, Director, University Hospital
Jay Blanton, Executive Director for Public Relations and Marketing
Victor A. Hazard, Associate Vice President for Student Affairs and Dean of Students
John H. Herbst, Director of the Student Center
Philipp J. Kraemer, Associate Provost for Undergraduate Education and Dean of Undergraduate Studies
Gregory R. Moore, Director of University Health Services
Donald E. Witt, Assistant Provost for Enrollment Management and Director of Undergraduate Admission and University Registrar
John H. Yopp, Associate Provost for Educational Partnerships
Policy Statement as a Drug-Free Institution

The University of Kentucky is committed to providing a healthy and safe environment for its students, faculty, and staff. The University has defined conduct in relation to the unlawful possession, use, dispensation, distribution or manufacture of alcohol or illicit drugs. Conduct which is violative of this definition poses unacceptable risks and disregard for the health, safety, and welfare of members of the University community and shall result in disciplinary action up to and including suspension or termination.

As a recipient of federal grants and contracts, the University of Kentucky gives this notice to students, faculty and staff that it is in compliance with and shall continue to be in compliance with the Drug-Free Workplace Act of 1988 and the Drug-Free Communities Act Amendment of 1989. Students, faculty and staff are herein notified of the standards of conduct which shall be applicable while on University of Kentucky property, on University business, and/or at University sponsored activities.

Standards of Conduct

By University regulations, by federal law, by state law, and, in some instances, by local ordinance, students, faculty and staff are prohibited from the unlawful possession, use, dispensation, distribution, or manufacture of illicit drugs on University property, on University business and/or at University sponsored activities.

Under University regulations, students, faculty and staff are required to abide by state laws concerning alcoholic beverages. Basically, Kentucky laws state that if one is under the age of 21, it is unlawful to:

1. possess or consume alcoholic beverages,
2. misrepresent one’s age for the purpose of purchasing alcoholic beverages, or
3. use a fake ID in an attempt to purchase alcoholic beverages.

No matter what one’s age, Kentucky law states that it is unlawful to:

1. procure any alcoholic beverages for anyone under 21 years of age or
2. drink or to be drunk in a public place.

University campuses and buildings are considered as public places for purposes of these laws, except for a facility licensed to serve alcoholic beverages, and except for a facility used as a private residence, unless University regulations state otherwise.

Ordnances of the Lexington-Fayette Urban County Government basically parallel the state laws.

Any member of the University student body, faculty, or staff who violates these defined standards of conduct shall be subject to appropriate disciplinary action up to and including suspension and/or termination. The specifically defined standards of conduct, the disciplinary procedures, and the appropriate sanctions are detailed in the codes of student conduct and in the Administrative Regulations (AR II-1.1-4, AR II-1.1-10, AR II-1.1-11 and Human Resource Policy & Procedures Numbers 13.0 and 14.0).

In addition, it is a violation of state law to operate a motor vehicle while under the influence of any substance which may impair one’s driving ability (drugs or alcoholic beverages).

Sanctions

Under University regulation, students who violate this standard of conduct are subject to disciplinary action from a minimum of a warning to a maximum of suspension from the University. Students who reside in University Housing are subject to further disciplinary action which may vary from a warning to termination of their housing contract.

Faculty and staff are subject to disciplinary action from a minimum of a warning to a maximum of termination from University employment.

Under state and federal drug laws, the gravity of the sanction depends on the classification of the controlled substance, the particular activity involved (possession or trafficking which includes manufacture, sale and possession with intent to sell), and whether or not multiple convictions are involved.

Under Kentucky law, the most severe penalty for a drug law violation involves trafficking. On a first offense conviction, one may receive a fine of up to $10,000.00 and/or a sentence of up to ten (10) years in the penitentiary; for subsequent offenses, the penalties may be doubled.

Under federal laws, for simple possession of a controlled substance, one may be imprisoned for up to one (1) year and/or fined up to $1,000.00. For subsequent offenses, one may be imprisoned for up to three (3) years and/or fined up to $5,000.00. Under federal law, one may be fined up to $8,000,000.00 and/or may be sentenced from not less than ten (10) years up to life in prison for trafficking in drugs. For violations of other federal drug laws, one may receive life in prison or the death penalty.

Under both state and federal laws, one may suffer the loss of whatever property (house, farm) or possessions (vehicle) which one may have used in the drug trade.

Specific penalties under federal laws for trafficking in various controlled substances are outlined in Appendix A to this policy.

Sanctions for violation of state alcohol laws vary from a fine of $10.00 to $2,000.00, a sentence of forty-eight (48) hours to twelve (12) months in jail, and/or suspension of one’s operator’s license.

Notice of Drug-Related Conviction

In compliance with the Federal Drug-Free Workplace Act of 1988, any employee shall notify the immediate supervisor if the employee is convicted of a criminal drug offense occurring in the workplace or while on University business within five (5) days of the conviction. The University shall take appropriate sanction and remedies in accordance within its policies. The provisions of this section are applicable to students who are employees of the University. If the employee is under a federal contract or grant, the University shall notify the contracting or granting agency of the conviction and of its actions. This section of this policy is also applicable to students who receive a Pell grant (federal grant).

Health Risks

The scope and impact of health risks from alcohol and drug abuse are both alarming and well-documented, ranging from mood-altering to life-threatening, with consequences that extend beyond the individual to family, organizations and society at large. The University of Kentucky, therefore, conducts regular programs to educate its students, faculty and staff that consumption and use of drugs may alter behavior, distort perception, impair thinking, impede judgment, and lead to physical or psychological dependence.
Drug-Free Policy

Alcohol and/or drugs and/or drug abuse may lead to the deterioration of physical health by causing or contributing to various health conditions including but not limited to fatigue, nausea, personal injury, insomnia, pathological organ damage, some forms of cancer, pancreatitis, heart attack, respiratory depression, birth defects, convulsions, coma, and even death. Alcohol and drug abuse may also result in deterioration of mental health by causing or contributing to various conditions such as increased aggression, hallucinations, depression, disorientation, and psychosis.

A detailed list of the effects and health risks associated with the use of many specific drugs appears as Appendix B to this policy.

Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident.

Low to moderate doses of alcohol also increase the incidence of a variety of aggressive acts, including spouse and child abuse.

Moderate to high doses of alcohol cause marked impairments in higher mental functions, severely altering a person’s ability to learn and remember information.

Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described.

Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions. Alcohol withdrawal can be life-threatening. Long-term consumption of large quantities of alcohol, particularly when combined with poor nutrition, can also lead to permanent damage to vital organs such as the brain and the liver.

Mothers who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and mental retardation. In addition, research indicates that children of alcoholic parents are at greater risk than other youngsters of becoming alcoholics.

Training and Counseling Resources

Continuous efforts are made to make students, faculty and staff aware of the on-campus and off-campus programs which provide information and professional services on matters related to the abuse of alcohol and drugs.

Lists of sources for information and counseling for students are published in the Kernel regularly. Students are encouraged to contact the Dean of Students and/or the Office of Residence Life for information and appropriate referral.
Federal Trafficking Penalties

<table>
<thead>
<tr>
<th>CSA</th>
<th>PENALTY</th>
<th>1st Offense</th>
<th>Quantity</th>
<th>DRUG</th>
<th>Quantity</th>
<th>PENALTY</th>
<th>2nd Offense</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Not less than 10 years. Not more than life.</td>
<td>Not less than 5 years. Not more than 40 years.</td>
<td>10-99 gm or 100-999 gm mixture</td>
<td>METHAMPHETAMINE</td>
<td>100 gm or more or 1 kg or more mixture</td>
<td>Not less than 10 years. Not more than life.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>If death or serious injury, not less than 20 years. Not more than life.</td>
<td>Fine of not more than $2 million individual, $1 million other than individual.</td>
<td>100-999 gm mixture</td>
<td>HEROIN</td>
<td>1 kg or more mixture</td>
<td>Not more than 10 years. Not more than life.</td>
<td></td>
</tr>
<tr>
<td>II</td>
<td>Fine of not more than $4 million individual, $10 million other than individual.</td>
<td>Fine of not more than $2 million individual, $1 million other than individual.</td>
<td>500-4,999 gm mixture</td>
<td>COCAINE</td>
<td>5 kg or more mixture</td>
<td>If death or serious injury, not less than 20 years. Not more than life.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>If death or serious injury, not less than 20 years. Not more than life.</td>
<td>5-49 gm mixture</td>
<td>COCAINE BASE</td>
<td>50 gm or more mixture</td>
<td>100 gm or more or 1 kg or more mixture</td>
<td>If death or serious injury, not less than 20 years. Not more than life.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fine of not more than $2 million individual, $1 million other than individual.</td>
<td>10-99 gm or 100-999 gm mixture</td>
<td>PCP</td>
<td>10 gm or more mixture</td>
<td>10 gm or more mixture</td>
<td>Fine of not more than $4 million individual, $10 million other than individual.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fine of not more than $2 million individual, $1 million other than individual.</td>
<td>1 - 10 gm mixture</td>
<td>LSD</td>
<td>400 gm or more mixture</td>
<td>100 gm or more mixture</td>
<td>Fine of not more than $8 million individual, $20 million other than individual.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fine of not more than $2 million individual, $1 million other than individual.</td>
<td>40 - 399 gm mixture</td>
<td>FENTANYL</td>
<td>100 gm or more mixture</td>
<td>100 gm or more mixture</td>
<td>Fine of not more than $8 million individual, $20 million other than individual.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fine of not more than $2 million individual, $1 million other than individual.</td>
<td>10-99 gm mixture</td>
<td>FENTANYL ANALOGUE</td>
<td>100 gm or more mixture</td>
<td>100 gm or more mixture</td>
<td>Fine of not more than $8 million individual, $20 million other than individual.</td>
<td></td>
</tr>
</tbody>
</table>

As of November 18, 1988

Federal Trafficking Penalties – Marijuana

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>First Offense</th>
<th>Second Offense</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 kg or more; or 1,000 or more plants</td>
<td>Marijuana Mixture containing detectable quantity*</td>
<td>Not less than 10 years, not more than life.</td>
<td>Not less than 20 years, not more than life.</td>
</tr>
<tr>
<td>100 to 1,000 kg; or 100-999 plants</td>
<td>Marijuana Mixture containing detectable quantity*</td>
<td>Not less than 5 years, not more than 40 years.</td>
<td>Not less than 10 years, not more than life.</td>
</tr>
<tr>
<td>50 - 100 kg</td>
<td>Marijuana</td>
<td>Not more than 20 years. If death or serious injury, not less than 20 years, not more than life.</td>
<td>Not more than 20 years. If death or serious injury, not less than 20 years, not more than life.</td>
</tr>
<tr>
<td>1 to 100 kg</td>
<td>Hashish</td>
<td>Not more than 20 years. If death or serious injury, not less than 20 years, not more than life.</td>
<td>Not more than 30 years. If death or serious injury, life.</td>
</tr>
<tr>
<td>100 kg to 500,000</td>
<td>Hashish Oil</td>
<td>Fine $1 million individual, $5 million other than individual.</td>
<td>Fine $2 million individual, $10 million other than individual.</td>
</tr>
<tr>
<td>Less than 50 kg</td>
<td>Marijuana</td>
<td>Not more than 5 years.</td>
<td>Not more than 10 years.</td>
</tr>
<tr>
<td>Less than 10 kg</td>
<td>Hashish</td>
<td>Not more than 5 years.</td>
<td>Not more than 10 years.</td>
</tr>
</tbody>
</table>

*Includes Hashish and Hashish Oil

(Marijuana is a Schedule I Controlled Substance)
## Controlled Substances – Uses & Effects

<table>
<thead>
<tr>
<th>DRUGS CSA SCHEDULES</th>
<th>TRADE OR OTHER NAMES</th>
<th>MEDICAL USES</th>
<th>DEPENDENCE</th>
<th>TOLERANCE DURATION (HOURS)</th>
<th>POSSIBLE EFFECTS</th>
<th>EFFECTS OF OVERDOSE</th>
<th>WITHDRAWAL SYNDROME</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NARCOTICS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opium</td>
<td>II  III  V</td>
<td>Dover’s Powder, Paragonic Paracetcotin</td>
<td>Analgesic, antidiarrheal</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>3-6</td>
</tr>
<tr>
<td>Morphine</td>
<td>II  III</td>
<td>Morphine, MS-Contin Roxanol, Roxanol SR</td>
<td>Analgesic, antitussive</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>3-6</td>
</tr>
<tr>
<td>Codeine</td>
<td>II  III  V</td>
<td>Tylenol w/Cod., Emprin w/Cod., Robitussin A-G, Flonael w/Cod</td>
<td>Analgesic, antitussive</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Yes</td>
<td>3-6</td>
</tr>
<tr>
<td>Heroin</td>
<td></td>
<td>Dicacefynorphine, Horse, Smack</td>
<td>None</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>3-6</td>
</tr>
<tr>
<td>Hydromorphone</td>
<td>II</td>
<td>Dilaudid</td>
<td>Analgesic</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>3-6</td>
</tr>
<tr>
<td>Meperidine (Pethidine)</td>
<td></td>
<td>Demerol, Mepergan</td>
<td>Analgesic</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>3-6</td>
</tr>
<tr>
<td>Methadone</td>
<td>II  III</td>
<td>Doluphine, Methadone, Methadose</td>
<td>Analgesic</td>
<td>High</td>
<td>High-Low</td>
<td>Yes</td>
<td>12-24</td>
</tr>
<tr>
<td>Other Narcotics</td>
<td>I  II  III  IV</td>
<td>Numorphan, Percodan, Percocet, Tylox, Tussionex, Fentanyl, Darvon, Lomotil, Talwin</td>
<td>Analgesic, antidiarrheal antitussive</td>
<td>High-Low</td>
<td>High-Low</td>
<td>Yes</td>
<td>Variable</td>
</tr>
<tr>
<td><strong>DEPRESSANTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chlortalidone</td>
<td>IV</td>
<td>Noctec</td>
<td>Hypnotic</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Yes</td>
<td>5-8</td>
</tr>
<tr>
<td>Barbiturates</td>
<td>II  III</td>
<td>Amytal, Butisol, Flornal, Lottusate, Nembutal, Seconal, Turalon, Phenobarbital</td>
<td>Anesthetic, anticonvulsant, sedative hypnotic, veterinary euthanasia agent</td>
<td>High-Mod.</td>
<td>High-Mod.</td>
<td>Yes</td>
<td>1-16</td>
</tr>
<tr>
<td>Benzodiazepines</td>
<td>IV</td>
<td>Alivam, Dalmane, Diazepam, Librium, Xanax, Sereck, Valium, Tranxene, Verhren, Versad Halcion, Paxipam, Restoril</td>
<td>Antianxiety, anti-convulsant, sedative, hypnotic</td>
<td>Low</td>
<td>Low</td>
<td>Yes</td>
<td>4-8</td>
</tr>
<tr>
<td>Methaqualone</td>
<td>I</td>
<td>Quaalude</td>
<td>Sedative, hypnotic</td>
<td>High</td>
<td>High</td>
<td>Yes</td>
<td>4-8</td>
</tr>
<tr>
<td>Glutethimide</td>
<td>III</td>
<td>Doriden</td>
<td>Sedative, hypnotic</td>
<td>High</td>
<td>Moderate</td>
<td>Yes</td>
<td>4-8</td>
</tr>
<tr>
<td>Other Depressants</td>
<td>III  IV</td>
<td>Equanil, Miltown, Nobutal, Phentermine, Valium1, Talwin</td>
<td>Anxiolytic, sedative, hypnotic</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Yes</td>
<td>4-8</td>
</tr>
<tr>
<td><strong>STIMULANTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cocaine</td>
<td>II</td>
<td>Coke, Coke, Snow, Crack</td>
<td>Local anesthetic</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>1-2</td>
</tr>
<tr>
<td>Amphetamines</td>
<td>II</td>
<td>Biphetamine, Delcobsene, Dextro, Decedrine, Dobetol</td>
<td>Attention deficit disorders, narcolepsy, weight control</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>2-4</td>
</tr>
<tr>
<td>Phenmetrazine</td>
<td>II</td>
<td>Preludin</td>
<td>Weight control</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>2-4</td>
</tr>
<tr>
<td>Methyphenidate</td>
<td>II</td>
<td>Ritalin</td>
<td>Attention deficit disorders, narcolepsy</td>
<td>Possible</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
</tr>
<tr>
<td>Other Stimulants</td>
<td>III  IV</td>
<td>Adrenalin, Cylert, Dextro, Ionamin, Methadone</td>
<td>Weight control</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>2-4</td>
</tr>
<tr>
<td><strong>HALLUCINOGENS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LSD</td>
<td>I</td>
<td>Acid, Microdot</td>
<td>None</td>
<td>None</td>
<td>Unknown</td>
<td>Yes</td>
<td>8-12</td>
</tr>
<tr>
<td>Mescaline &amp; Peyote</td>
<td>I</td>
<td>Mexic, Buctons, Cactus</td>
<td>None</td>
<td>None</td>
<td>Unknown</td>
<td>Yes</td>
<td>8-12</td>
</tr>
<tr>
<td>Amphetamine Variants</td>
<td>II</td>
<td>2.5-DMA, PMA, STP, MDA, MDMA, TMA, DOM, DOB</td>
<td>None</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Yes</td>
<td>Variable</td>
</tr>
<tr>
<td>Phencyclidine</td>
<td>II</td>
<td>PCP, Angel Dust, Hog</td>
<td>None</td>
<td>Unknown</td>
<td>High</td>
<td>Yes</td>
<td>Days</td>
</tr>
<tr>
<td>Phencyclidine Analouges</td>
<td>I</td>
<td>PCE, PCP, TCP</td>
<td>None</td>
<td>Unknown</td>
<td>High</td>
<td>Yes</td>
<td>Days</td>
</tr>
<tr>
<td>Other Hallucinogens</td>
<td></td>
<td>Bufoxin, Iogaine, DMT, DET, Psilocyn, Psilocyn</td>
<td>None</td>
<td>None</td>
<td>Unknown</td>
<td>Possible</td>
<td>Variable</td>
</tr>
<tr>
<td><strong>CANNABIS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marijuana</td>
<td>I</td>
<td>Pot, Acapulco Gold, Grass, Reefer, Semsillia, Thai Sticks</td>
<td>None</td>
<td>Unknown</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
</tr>
<tr>
<td>Tetrahydrocannabinol</td>
<td>II</td>
<td>THC, Marinol</td>
<td>Cancer chemotherapy, antinauseant</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Yes</td>
<td>2-4</td>
</tr>
<tr>
<td>Hashish</td>
<td>I</td>
<td>Hash</td>
<td>None</td>
<td>Unknown</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
</tr>
<tr>
<td>Hashish Oil</td>
<td>I</td>
<td>Hash Oil</td>
<td>None</td>
<td>Unknown</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
</tr>
</tbody>
</table>

1 Designated a narcotic under the CSA 2 Not designated a narcotic under the CSA
Policy on Residency

13 KAR 2:045.  
DETERMINATION OF RESIDENCY STATUS FOR ADMISSION AND TUITION ASSESSMENT PURPOSES.  
RELATES TO: KRS Chapter 13B, 164.020, 164.030, 164A.330(6)  
STATUTORY AUTHORITY: KRS 164.020(8)  
NECESSITY, FUNCTION, AND CONFORMITY: KRS 164.020(8) requires the Council on Postsecondary Education to determine tuition and approve the minimum qualifications for admission to a state-supported postsecondary education institution and authorizes the Council to set different tuition amounts for residents of Kentucky and for nonresidents. This administrative regulation establishes the procedure and guidelines for determining the residency status of a student who is seeking admission to, or who is enrolled at, a state-supported postsecondary education institution.

Section 1. Definitions.  
(1) “Academic term” means a division of the school year during which a course of studies is offered, and includes a semester, quarter, or single consolidated summer term as defined by the institution.
(2) “Continuous enrollment” means enrollment in a state-supported postsecondary education institution at the same degree level for consecutive terms, excluding summer term, since the beginning of the period for which continuous enrollment is claimed unless a sequence of continuous enrollment is broken due to extenuating circumstances beyond the student’s control, including serious personal illness or injury, or illness or death of a parent.
(3) “Degree level” means enrollment in a course or program which could result in the award of a:  
(a) Certificate, diploma or other program award at an institution;  
(b) Baccalaureate degree or lower including enrollment in a course by a nondegree-seeking postbaccalaureate student;  
(c) Graduate degree or graduate certification other than a first-professional degree in law, medicine, dentistry or “Pharm. D.”; or  
(d) Professional degree in law, medicine, dentistry, or “Pharm. D”.
(4) “Demonstration of Kentucky domicile and residency” means the presentation of documented information and evidence sufficient to prove by a preponderance of the evidence that a person is domiciled in Kentucky and is a resident of Kentucky.
(5) “Dependent person” means a person who cannot demonstrate financial independence from parents or persons other than a spouse and who does not meet the criteria established in Section 5 of this administrative regulation.
(6) “Determination of residency status” means the decision of a postsecondary education institution that may include a formal hearing that results in the classification of a person as a Kentucky resident or as a nonresident for admission and tuition assessment purposes.
(7) “Domicile” means a person’s true, fixed, and permanent home and is the place where the person intends to remain, and to which the person expects to return if absent without intending to establish a new domicile elsewhere.
(8) “Full-time employment” means continuous employment for at least forty-eight (48) weeks at an average of at least thirty (30) hours per week.
(9) “Independent person” means a person who demonstrates financial independence from parents or persons other than a spouse and who can meet the criteria established in Section 5 of this administrative regulation.
(10) “Institution” means an entity defined in KRS 164.001(11) if the type of institution is not expressly stated and includes the Kentucky Virtual University, the Council on Postsecondary Education, and the Kentucky Higher Education Assistance Authority.
(11) “Kentucky resident” means a determination by an institution that a person is domiciled in and is a resident of Kentucky as determined by this administrative regulation.
(12) “Nonresident” means a person who is domiciled outside of Kentucky or who currently maintains legal residence outside Kentucky or who is not a Kentucky resident within the meaning of this administrative regulation.
(13) “Parent” means one (1) of the following:  
(a) A person’s father or mother; or  
(b) A court-appointed legal guardian if:  
1. The guardianship is recognized by an appropriate court within the United States;  
2. There was a relinquishment of the rights of the parents; and  
3. The guardianship was not established primarily to confer Kentucky residency on the person.  
(14) “Preponderance of the evidence” means the greater weight of evidence, or evidence which is more credible and convincing to the mind.
(15) “Residence” means the place of abode of a person and the place where the person is physically present most of the time for a noneducational purpose in accordance with Section 3 of this administrative regulation.
(16) “Student financial aid” means all forms of payments to a student if one (1) condition of receiving the payment is the enrollment of the student at an institution.
(17) “Sustenance” means living expenses including room, board, maintenance, transportation, and also may include educational expenses including tuition, fees, books, and supplies.

Section 2. Scope.  
(1) State-supported postsecondary education institutions were established and are maintained by the Commonwealth of Kentucky primarily for the benefit of qualified residents of Kentucky. The substantial commitment of public resources to postsecondary education is predicated on the proposition that the state benefits significantly from the existence of an educated citizenry. As a matter of policy, access to postsecondary education shall be provided so far as feasible at reasonable cost to an individual who is domiciled in Kentucky and who is a resident of Kentucky.
(2) The Council on Postsecondary Education may require a student who is neither domiciled in nor a resident of Kentucky to meet higher admission standards and to pay a higher level of tuition than resident students.
(3) This administrative regulation applies to all student residency determinations regardless of circumstances, including residency determinations made by the state-supported institutions for prospective and currently-enrolled students; the Southern Regional Education Board contract spaces; reciprocity agreements, where appropriate; the Kentucky Virtual University; academic common market programs; the Kentucky Educational Excellence Scholarship Program; and other state student financial aid programs, as appropriate.

Section 3. Determination of Residency Status; General Rules.  
(1) A determination of residency shall include:  
(a) An initial determination of residency status by an institution during the admission process or upon enrollment in an institution for a specified academic term or for admission into a specified academic program;  
(b) A reconsideration of a determination of residency status by an institution based upon a changed circumstance; and  
(c) A formal hearing conducted by an institution upon request of a student after other administrative procedures have been completed.
(2) An initial determination of residency status shall be based upon:  
(a) The facts in existence when the credentials established by an institution for admission for a specific academic term have been received and during the period of review by the institution;  
(b) Information derived from admissions materials;  
(c) Other materials required by an institution and which are consistent with this administrative regulation; or  
(d) Other information available to the institution from any source.
(3) An individual seeking a determination of Kentucky residency status shall demonstrate that status by a preponderance of the evidence.
(4) A determination of residency status shall be based upon verifiable circumstances or actions.
(5) Evidence and information cited as the basis for Kentucky domicile and residency shall accompany the application for a determination of residency status.
(6) A student classified as a nonresident shall retain that status until the student is officially reclassified by an institution.
(7) A student may apply for a review of a determination of residency status once for each academic term.
(8) If an institution has information that a student’s residency status may be incorrect, the institution shall review and determine the student’s correct residency status.
Section 4. Presumptions Regarding Residency Status.

(1) In making a determination of residency status, it shall be presumed that a person is a nonresident if:

(a) A person is, or seeks to be, an undergraduate student and admissions records show the student to be a graduate of an out-of-state high school within five (5) years prior to a request for a determination of residency status;

(b) A person’s admissions records indicate the student’s residence to be outside of Kentucky at the time of application for admission;

(c) A person moves to Kentucky primarily for the purpose of enrollment in an institution;

(d) A person moves to Kentucky and within twelve (12) months enrolls at an institution more than half time;

(e) A person has a continuous absence of one (1) year from Kentucky.

(2) A presumption arising from subsection (1) of this section shall be overcome by presentation of evidence that is sufficient to demonstrate that a person is domiciled in and is a resident of Kentucky.

Section 5. Determination of Whether a Student is Dependent or Independent.

(1) In a determination of residency status, an institution shall first determine whether a student is dependent or independent. This provision is predicated on the assumption that a dependent person lacks the financial ability to live independently of the person upon whom the student is dependent and therefore lacks the ability to form the requisite intent to establish domicile.

(2) In determining the dependent or independent status of a person, the following information shall be considered as well as other relevant information available at the time the determination is made:

(a) 1. Whether the person has been claimed as a dependent on the federal or state tax returns of a parent or other person for the year preceding the date of application for a determination of residency status; or

2. Whether the person is no longer claimed by a parent or other person as a dependent or as an exemption for federal and state tax purposes; and

(b) Whether the person has financial earnings and resources independent of a person other than an independent spouse necessary to provide for the person’s own sustenance.

(3) An individual who enrolls at an institution immediately following graduation from high school and remains enrolled shall be presumed to be a dependent person unless the contrary is evident from the information submitted.

(4) Domicile may be inferred from the student’s permanent address, parent’s mailing address, or location of high school of graduation.

(5) Marriage to an independent person domiciled in and who is a resident of Kentucky shall be a factor considered by an institution in determining whether a student is dependent or independent.

(6) Financial assistance from or a loan made by a parent or family member other than an independent spouse, if used for sustenance of the student:

(a) Shall not be considered in establishing a student as independent; and

(b) Shall be a factor in establishing that a student is dependent.

Section 6. Effect of a Determination of Dependent Status on a Determination of Residency Status.

(1) The effect of a determination that a person is dependent shall be:

(a) The domicile and residency of a dependent person shall be the same as either parent. The domicile and residency of the parent shall be determined in the same manner as the domicile and residency of an independent person.

(b) The domicile and residency of a dependent person whose parents are divorced, separated, or otherwise living apart shall be Kentucky if either parent is domiciled in and is a resident of Kentucky regardless of which parent has legal custody or is entitled to claim that person as a dependent pursuant to federal or Kentucky income tax provisions.

(2) (a) If the parent or parents of a dependent person are Kentucky residents and are domiciled in Kentucky but subsequently move from the state, the dependent person shall be considered a resident of Kentucky while in continuous enrollment at the degree level in which currently enrolled.

(b) If continuous enrollment is broken or the current degree level is completed, the dependent person’s residency status shall be reassessed when the circumstances detailed in subparagraph 1 of this paragraph are present.

Section 7. Member of Armed Forces of the United States, Spouse and Dependants; Effect on a Determination of Residency Status.

(1) A member, spouse, or dependent of a member whose domicile and residency was Kentucky at the time of induction into the Armed Forces of the United States, and who maintains Kentucky as home of record and permanent address, shall be entitled to Kentucky residency status:

(a) During the time of active service; or

(b) If the member, spouse, or dependent returns to this state within six (6) months of the date of the member’s discharge from active duty.

(2) (a) A member, spouse or dependent of a member of the Armed Forces of the United States stationed in Kentucky on active military orders shall be considered a Kentucky resident while the member is on active duty in this state pursuant to those orders if the member is not:

1. Stationed in Kentucky for the purpose of enrollment at an institution; or

2. On temporary assignment of less than one (1) year.

(b) A member, spouse or dependent of a member, shall not lose Kentucky residency status if the member is thereafter transferred on military orders while the member, spouse or dependent requesting the status is incontinuous enrollment at the degree level in which currently enrolled.

(3) Membership in the National Guard or civilian employment at a military base alone shall not qualify a person for Kentucky residency status under the provisions of subsections (1) and (2) of this section.

(4) A person’s residency status established pursuant to this section shall be reassessed if the qualifying condition is terminated.

Section 8. Status of Nonresident Aliens; Visas and Immigration.

(1) (a) A person holding a permanent residency visa or classified as a political refugee shall establish domicile and residency in the same manner as another person.

(b) Time spent in Kentucky and progress made in fulfilling the conditions of domicile and residency prior to obtaining permanent residency status shall be considered in establishing Kentucky domicile and residency.

(2) A person holding a nonimmigrant visa with designation A, E, G, H-1, H-4 if accompanying a person with an H-1 visa, I, K, L, N, R, shall establish domicile and residency the same as another person.

(3) (a) An independent person holding a nonimmigrant visa with designation B, C, D, F, H-2, H-3, H-4 if accompanying a person with an H-2 or H-3 visa, J, M, O, P, Q, S, TD or TN shall not be classified as a Kentucky resident, because that person does not have the capacity to remain in Kentucky indefinitely and therefore cannot form the requisite intent necessary to establish domicile within the meaning of this administrative regulation.

(b) A dependent person holding a visa as described in paragraph (a) of this subsection, but who is a dependent of a parent holding a visa as described in subsection (2) of this section, shall be considered as holding the visa of the parent.

(c) A dependent person holding a visa described in subsection (2) of this section or paragraph (a) of this subsection, if a parent is a citizen of the United States and is a resident of and domiciled in Kentucky, shall be a resident of Kentucky for the purposes of this administrative regulation.

(4) A person shall be a Kentucky resident for the purpose of this administrative regulation if the person graduated from a Kentucky high school and:

(a) Is an undocumented alien;

(b) Holds a visa listed in subsections (2) or (3)(a) of this section; or

(c) Is a dependent of a person who holds a visa listed in subsections (2) or (3)(a) of this section.

(5) (a) Except as provided in paragraph (b) of this subsection, a person who has petitioned the federal government to reclassify visa status shall continue to be ineligible until the petition has been decided by the federal government.

(b) A person who has petitioned the federal government to reclassify visa status based on a marriage to a Kentucky resident and who can demonstrate that the petition has been filed and acknowledged by the federal government, may establish Kentucky domicile and residency at that time.

Section 9. Beneficiaries of a Kentucky Educational Savings Plan Trust.

A beneficiary of a Kentucky Educational Savings Plan Trust shall be granted residency status if the beneficiary meets the requirements of KRS 164A.330(6).
Section 10. Criteria Used in a Determination of Residency Status.

(1) A determination of Kentucky domicile and residency shall be based upon verifiable circumstances or actions. A single fact shall not be paramount, and each situation shall be evaluated to identify those facts essential to the determination of domicile and residency.

(2) The following facts, although not conclusive, shall have probative value in their entirety and shall be individually weighted, appropriate to the facts and circumstances in each determination of residency:

(a) Acceptance of an offer of full-time employment or transfer to an employer in Kentucky or contiguous area while maintaining residence and domicile in Kentucky;

(b) Continuous physical presence in Kentucky while in a nonstudent status for the twelve (12) months immediately preceding the start of the academic term for which a classification of Kentucky residency is sought;

(c) 1. Filing of Kentucky resident income tax return for the calendar year preceding the date of application for a change in residency status; or
   2. Payment of Kentucky withholding taxes while employed during the calendar year for which a change in classification is sought;

(d) Full-time employment of at least one (1) year while living in Kentucky;

(e) Attendance as a full-time, nonresident student at an out-of-state institution based on a determination by that school that the person is a resident of Kentucky;

(f) Abandonment of a former domicile or residence and establishing domicile and residency in Kentucky with application to or attendance at an institution following and incidental to the change in domicile and residency;

(g) Obtaining licensing or certification for a professional and occupational purpose in Kentucky;

(h) Payment of real property taxes in Kentucky;

(i) Ownership of real property in Kentucky, if the property was used by the student as a residence preceding the date of application for a determination of residency status;

(j) Long-term lease of at least twelve (12) consecutive months of noncollegiate housing;

(k) Marriage of an independent student to a person who was domiciled in and a resident of Kentucky prior to the marriage;

(l) Continued presence in Kentucky during academic breaks; and

(m) The extent to which a student is dependent on student financial aid in order to provide basic sustenance.

(3) Except as provided in subsection (4) of this section, the following facts, because of the ease and convenience in completing them, shall have limited probative value in a determination that a person is domiciled in and is a resident of Kentucky:

(a) Kentucky automobile registration;

(b) Kentucky driver’s license; and

(c) Registration as a Kentucky voter.

(4) The absence of a fact contained in subsection (3) of this section shall have significant probative value in determining that a student is not domiciled in or is not a resident of Kentucky.

(5) A person shall not be determined to be a Kentucky resident by the performance of an act which is incidental to fulfilling an educational purpose or by an act performed as a matter of convenience. Mere physical presence in Kentucky, including living with a relative or friend, shall not be sufficient evidence of domicile and residency. A person shall respond to all information requested by an institution.

Section 11. Effect of a Change in Circumstances on Residency Status.

(1) If a person becomes independent or if the residency status of a parent or parents of a dependent person changes, an institution shall reassess residency either upon a request by the student or a review initiated by the institution.

(2) Upon transfer to a Kentucky institution, a student’s residency status shall be assessed by the receiving institution.

(3) A reconsideration of a determination of residency status for a dependent person shall be subject to the provisions for continuous enrollment, if applicable.

Section 12. Student Responsibilities.

(1) A student shall report under the proper residency classification which includes the following actions:

(a) Raising a question in a timely manner concerning residency classification;

(b) Making application for change of residency classification in a timely manner with the designated office or person at the institution; and

(c) Notifying the designated office or person at the institution immediately upon a change in residency.

(2) If a student fails to notify an institutional official of a change in residency, an institutional official may investigate and evaluate the student’s residency status.

(3) (a) If a student fails to provide, by the date specified by the institution, information required by an institution in a determination of residency status, the student shall be notified by the institution that the review has been canceled and that a determination has been made.

(b) Notification shall be made by registered mail, return receipt requested.

(c) Notification shall be made within ten (10) calendar days after the deadline for receipt of materials has passed.

(4) A student shall not be entitled to appeal a determination of residency status if the determination made by an institution is because a student has failed to meet published deadlines for the submission of information as set forth in subsection (3) of this section. A student may request a review of a determination of residency status in a subsequent academic term.

Section 13. Institutional Responsibilities.

Each institution shall:

(1) Provide for an administrative appeals process that includes a residency appeals officer to consider student appeals of an initial residency determination and which shall include a provision of fourteen (14) days for the student to appeal the residency appeals officer’s determination;

(2) Establish a residency review committee to consider appeals of residency determinations by the residency appeals officer. The residency review committee shall make a determination of student residency status and notify the student in writing within forty-five (45) days after receipt of the student appeal;

(3) Establish a formal hearing process as described in Section 14 of this administrative regulation;

(4) Establish written policies and procedures for administering the responsibilities established in subsections (1), (2), and (3) of this section and that are:

(a) Approved by the institution’s governing board;

(b) Made available to all students; and

(c) Filed with the council.


(1) A student who appeals a determination of residency by a residency review committee shall be granted a formal hearing by an institution if the request is made by a student in writing within fourteen (14) calendar days after notification of a determination by a residency review committee.

(2) If a request for a formal hearing is received, an institution shall appoint a hearing officer to conduct a formal hearing. The hearing officer:

(a) Shall be a person not involved in determinations of residency at an institution except for formal hearings; and

(b) Shall not be an employee in the same organizational unit as the residency appeals officer.

(3) An institution shall have written procedures for the conduct of a formal hearing that have been adopted by the board of trustees or regents, as appropriate, and that provide for:

(a) A hearing officer to make a recommendation on a residency appeal;

(b) Guarantees of due process to a student that include:
   1. The right of a student to be represented by legal counsel; and
   2. The right of a student to present testimony and information in support of a claim of Kentucky residency; and

(c) A recommendation to be issued by the hearing officer.

(4) An institution’s formal hearing procedures shall be filed with the Council on Postsecondary Education and shall be available to a student requesting a formal hearing.

Section 15. Cost of Formal Hearings.

(1) An institution shall pay the cost for all residency determinations including the cost of a formal hearing.

(2) A student shall pay for the cost of all legal representation in support of the student’s appeal of a formal hearing.

Revised Effective November 12, 2002

For further information about residency, please contact the Office of Undergraduate Admission and University Registrar, Funkhouser Bldg., University of Kentucky, Lexington, KY 40506-0054.

Policy subject to change without notice.
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